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The

CHEMIST AND DRUGGIST

or RETAILER — WHOLESALER — MANUFACTURER

JANUARY 31, 1948



HIS PAINTING of the Alchemist by Kwapil looks down upon us with his enigmatic and contemplative smile—reminding us that modern alchemists, though searching no longer for the elixir of life, are with their discoveries in the fields of sex hormones, penicillin, curarine chloride and the like, seeking not only to prolong life, but to ensure its health, vitality and vigour.

Through the alchemist's inspiration we strive to keep abreast of modern developments. We have long experience in the handling and distribution of highly specialised products.

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4 GRAFTON STREET, LONDON, W.I

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The associated
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(*Welwyn*) Ltd

Carnegie Quinine Works

Ltd

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ALOIN . AMINOPHYLLINE
 ATROPINE & SALTS . BARBITONE SOLUBLE
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Telephone : Welwyn Garden 506 (4 lines) Telegrams : "Carnechem, Welwyn Garden" where all communications should be addressed

CARNEGIE CHEMICALS (AUSTRALASIA), LTD., P.O. BOX 585, HASTINGS, NEW ZEALAND

Drugs and Dollars

Have you ever stopped to think how useful pharmaceuticals are as an exportable commodity and how indispensable is the part played by you the home market retail pharmacist in our export plan?

Pharmaceuticals take up very little shipping space relative to the monetary value of the commodity, which is a point of quite major importance. They derive a large part of their value from the processing involved rather than the actual drugs employed in manufacture. This means that even some of the drugs used have to be imported, the cost of these in foreign currency is small as compared with the currency obtained when the finished product is exported. A shipload of pharmaceuticals can be, and often is, of greater monetary value than a shipload of motor cars, paper-making machinery — or even coal!

Parliamentary Secretary to the Board of Trade has emphasised that Pharmaceutical trade is making a valuable addition to our export business, and we here at Simpsons are making a contribution to the swelling of volume of pharmaceuticals available for export. We are pursuing an aggressive policy to ensure that there will be a ready and continued

demand for our products in markets where they can earn hard currency.

Now this is where you, the retail pharmacist, come in. Manufacturers rely upon the background of home trade to provide, firstly, the volume of production essential to give economic costs and competitive prices, and, secondly, supporting revenue for long-term development of overseas markets. Without stable and sizeable home volume, export in this trade is not a practicable proposition. This is well worth stressing, because all of us wish to play what part we can in helping the country during these crucial times. It is right that the contribution of the retail pharmacist in this respect is fully and openly appreciated. This is yet another example of the wisdom of President Roosevelt's words, "Wealth begins when men co-operate."

It may well be that the demand for Simpson products in the home market will exceed supply in the near future, but the retail pharmacist may rest assured that it is our firm policy to watch his requirements and to keep a properly balanced trade so that we may all do the most of which, collectively, we are capable.

Announcement by

SIMPSON (CHEMIST), LTD., IODINE HOUSE, MUSEUM STREET, W.C.1.



50 years ago—

this advertisement for Towle's Chlorodyne appeared in the first number of the Manchester Evening Chronicle. Even at that date, Towle's had established itself as a well-tried and popular remedy,

and to-day —

TOWLE'S

CHLORODYNE

remains ever popular with the Pharmacist and his customers

Ample supplies are available

RETAIL } **1/5½ and 3/5½**
PRICES } Including Purchase Tax

TRADE } **10/- and 24/6 dozen**
PRICES } Plus 33½% Purchase Tax

Order through your usual Wholesaler or direct from :

JAMES WOOLLEY, Sons & Co. Ltd., Victoria Bridge, Manchester,

EDGLEY'S MEDISOAPS • MIDGLEY'S MEDISOAPS
EDISOAPS • MIDGLEY'S MEDISOAPS
EDGLEY'S MEDISOAPS
IDGLEY'S MEDISOAPS
for some time now I
have been unable to
obtain Midgley's
Medisoap No 19, and

class

EXTRACT FROM LETTER FROM MISS E. H.
UAPS

There is a steady demand for Medisoaps from regular customers.

Most of the popular formulæ are in good supply and, with exception of Nos. 46, 83 and 87, can be supplied free from rationing against a medical prescription.

A new brochure describing Midgley's Medisoaps is now available to pharmacists on request.

EVANS MEDICAL SUPPLIES LTD

Suttexa

PRODUCTS



1/7½d.	Suttexa Premature Feeding Bottles	...	...	12/9	doz.	C.
1/10d.	" Standard	"	...	14/9	"	C.
7½d.	" Hydrogen Peroxide. 10 vol.	...	...	4/10	"	C.
10½d.	" "	10 "	...	6/9	"	C.
9d.	" "	20 "	...	5/6	"	C.
1/0½d.	" "	20 "	...	8/3	"	C.
1/-	Lysol	...	...	7/9	"	C.
1/6d.	"	...	...	11/6	"	C.
1/4½d.	Zinc & Castor Oil Cream	...	...	9/-	"	A.
1/4½d.	Compound Syrup of Figs	...	...	9/-	"	A.

Sanitary Towels and Malt & Oil are available in limited quantities

"A" represents 33-1/3rd% Purchase Tax.

"C" goods not subject to tax.

CHEMISTS ONLY SUPPLIED.

DISPLAY TERMS.—Terms operating as from January 1st, 1948, are as follows:—

£5 Assorted Goods less 5%.
£10 " " " 10%.

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DRUGGISTS' SUNDRIES.
LONDON, LTD.

ESTABLISHED 1860

HORSESHOE LANE, ENFIELD,
MIDDLESEX

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Telegrams: VINAIGRETTE, ENFIELD.

FULL
33½% PROFIT

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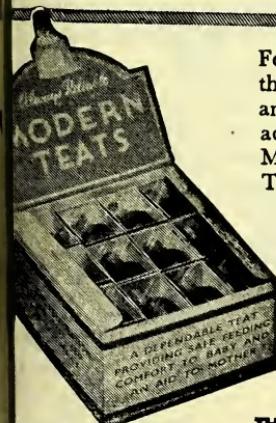
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ANTI-COLIC TEAT

THE CANNON RUBBER MANUFACTURERS LTD, LONDON N.17

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PILLODINES were evolved after years of scientific research in the internationally famous pharmaceutical laboratories of R. Shering. Pillodines have been the subject of organised tests providing evidence of their efficiency.

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ONE CHEMIST sold 2 dozen Vick Inhalers within 2 hours of putting them on display. Unusual? Of course! But actual tests show that 5 times as many Vick Inhalers are sold when the attractive display-container is given No. 1 counter position. Try it and see!

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Retail price 1/8 (inc. tax).



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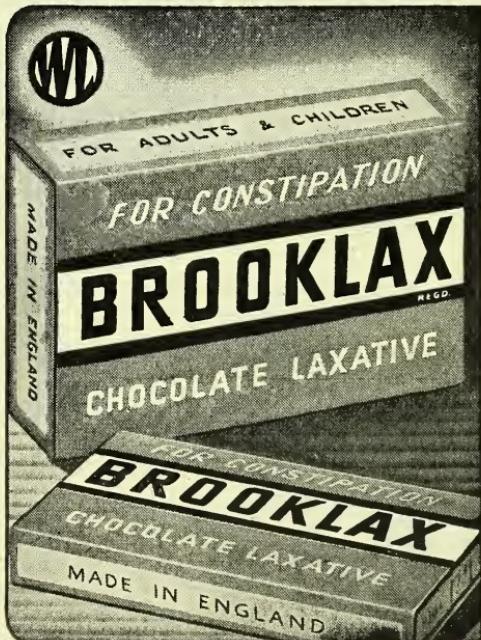
PRIVATE FORMULAS

The 'COX' organisation is always available for consultation on new products, and welcomes the opportunity to help with their production.

EVERYTHING TO DO WITH PILLS AND TABLETS IN PARTICULAR HAS OUR WHOLEHEARTED INTEREST

Our extensive production facilities and over a century of experience are at your service!

ARTHUR H. COX & CO. LTD. BRIGHTON



IMPORTANT!

18 Tablet size...now available!

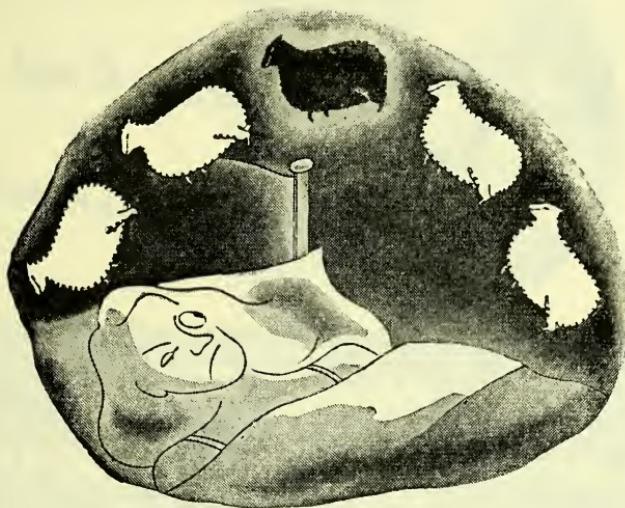
In packs of 6 and 18 tablets
New Retail Prices 7½d. & 1/6
Trade per doz. 4/- & 10/-
Plus Purchase Tax

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Chalcot Road, London, N.W.1
Telephone : PRImrose 3395/6/7.



The Chemist's Case Book. *The Chemist to-day is psychiatrist, near-sician and counsellor all rolled into one. A dozen times a day he is called upon to give the benefit of his knowledge and experience.*



Sleeplessness

every Chemist knows loss of sleep is more often traceable to ill-functioning of digestive organs than to any other cause. If the customer goes to bed every night on a warm cup of Benger's Food the pre-digestive (enzymic) action of the food soothes both stomach and nerves, yet at the same time gives rich nourishment that builds bodily and nervous vigour. A large proportion of the Chemist's customers are potential buyers of Benger's Food and a course of Benger's Food presents a steady and continuous profit.

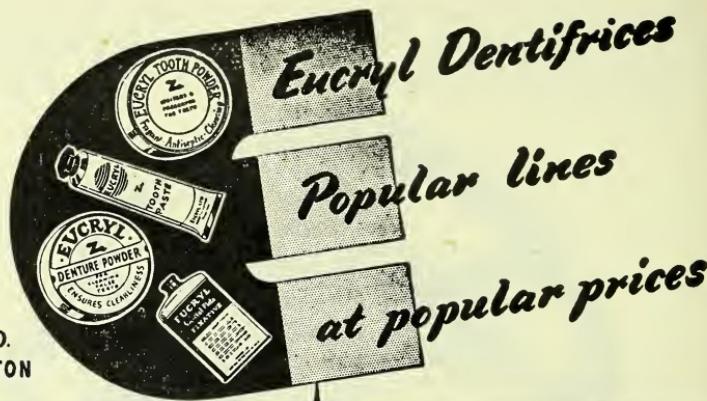
Benger's Food

Important!

Benger's Food is not to be confused with ordinary bed-time drinks. It is a partially pre-digested milk food. Benger's to-day is as easy to make as a cup of cocoa.

ENGER'S LTD., HOLMES CHAPEL, CHERSHIRE

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SOUTHAMPTON



Give them Eucryl The white powder for white teeth

We are in a position to
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from New York:

PODOPHYLLUM PELTATUM ROOT

on Buyers' Licence

Biddle Sawyer Corporation
62 West 47th Street, New York 19

Cables : Bidsawya New York

For packed
Tablets

**Lofthouse &
Saltmer LTD**
HULL

For bulk
Tablets

'ROCHE' Price List

The following prices became operative on 1st January, 1948. Prices are given for certain new items which will not be available until later.

Products	Packings	Retail Price	Purchase Tax extra
'Benerva' Ampoules 100 mg.	... 50	150/-	33/4
Calcium-D-'Redoxon' Tablets	... 100	6/6	1/5½
'Ephynal' Tablets 50 mg.	... 25 100	17/6 60/-	Exempt ,,
Ferro-'Redoxon' Granules	... 100 500	3/6 15/-	9½ 3/4
Kina-'Redoxon' Tablets ...	... 50 500	4/6 36/-	1/- 8/-
'Liquemin' Solution (5,000 T.U. per c.c.) ...	... 5 c.c.	60/-	Exempt
Nicotinic Acid 'Roche' Tablets 50 mg.	... 25 100 1,000	1/3 3/- 22/6	,, ,, ,,
Nicotinamide 'Roche' Tablets 50 mg.	... 25 100 500	2/- 5/6 25/-	,, ,, ,,
Pethidine 'Roche' rubber-capped phials ...	... 50 c.c.	16/6	,,
'Redoxon' Tablets 200 m.g.	... 25 100 500 1,000	5/6 19/6 90/- 175/-	,, ,, ,, ,,

1948 Price List Available Shortly.

ROCHE PRODUCTS LTD., WELWYN GARDEN CITY, HERTS

Scottish Depot: 665 Great Western Road, Glasgow, W.2

Dr. Page-Barker's Scurf & Dandruff Lotion

IMPORTANT !

Having maintained the price of Page-Barker's Scurf Lotion at the pre-war level for the past seven years, we find that greatly increased cost of materials, packaging, etc., compels us to make a slight increase. And as from Feb. 1st., the price will be

Trade 20/- doz. Plus Tax **ONE THIRD**



Retail 3/4 PATA

Sole Manufacturers and Proprietors—

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Distributors to the Chemists' Trade Thos. Christy & Co. Ltd., Farnham, Surrey.



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FIELD & CO. (Aromatics) Ltd.
Alperton, Wembley, Mdx.

BY THE MAKERS OF
MALTO BAR
SOUND VALUE
GENEROUS DISCOUNTS

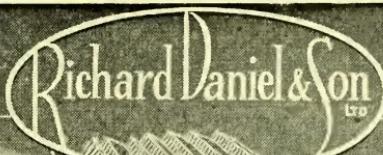


Also Peppermint Tablets
Minettes (th oat antiseptic pellets)

Wholesale and Retail Enquiries to :

AFFINED BASIC CHEMICALS LTD.

Empire Works, Desborough Road,
High Wycombe, Bucks.
Telephone : HIGH WYCOMBE 2266/7/8. (c)

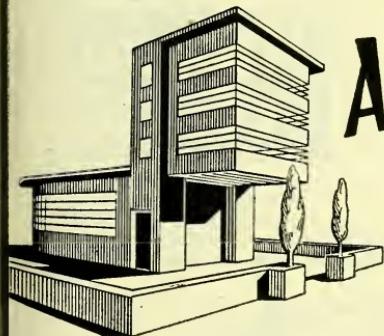


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TABLETS & PILLS

FOR
CHEMISTS

*Manufacturing
Chemists*

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For the treatment of:—

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Every batch issued is clinically tested

2cc. ampoules :—packs of 3, 12 and 50.
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Horse Remedies
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KOMPO
FOR
COLDS

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YEAST TABLETS

Each ounce contains a natural
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mgm. Nicotinic Acid.
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MALT FOOD

With Vitamins

(A. 6,500 I.U., D. 400 I.U.
per fl. oz.

Stannard's



Growing Catalogue of Winners
No. 2

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ORIGINAL

KOFFS

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Attractive 3-colour display outers. 6-colour showcards.

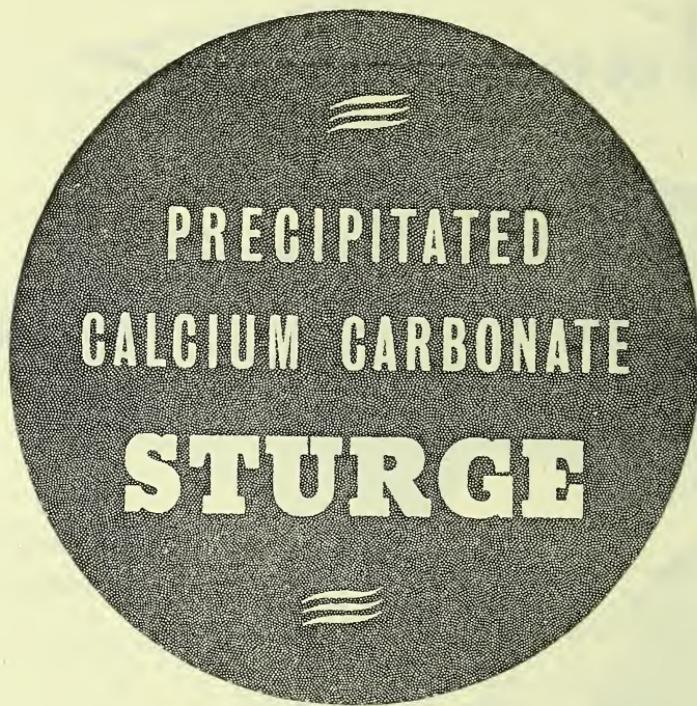
Other Winter lines: **Bronchettes** for children's coughs: 7½d.; **Mintettes** for children's 'throats' 7½d.; **Throat Mints**, 9d.

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The perfect medicated lip balm. Available for export. Samples and terms on request.

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3 LLOYD'S AVENUE, LONDON, E.C.3

Crosby's
ANTISEPTIC
BABY POWDER



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CARDBOARD CONTAINERS**

DO IT NOW — DO IT LIKE THIS!

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2. Use addressed labels received with invoices. Enter cost of postage on Postal Receipt portion of label (which must be date-stamped by Post Office). Detach this Receipt portion and keep it.

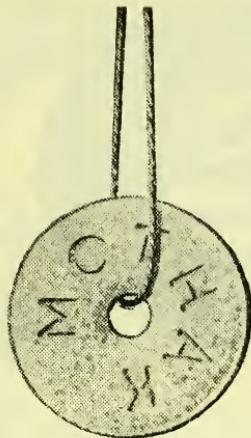
3. Postage will be refunded only by our representative when he calls, on surrender of Receipt. This Receipt cannot be accepted for direct credit, and should not be deducted from account.

MACLEANS LTD., GT. WEST RD., BRENTFORD, MIDDX. Phone: Ealing 6616. Wires: Macleans, Brentford

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SHAVING STICK
OINTMENT
TALCUM**



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And now for your supplies—and attractive display material—

THOMPSON & CAPPER WHOLESALE LIMITED,

KE HALL ROAD, LIVERPOOL, 19.



no moths with MOTHAKS

January 31, 1948



THIRTY YEARS REPUTATION

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LONDON. E.5.



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Purity & Quality

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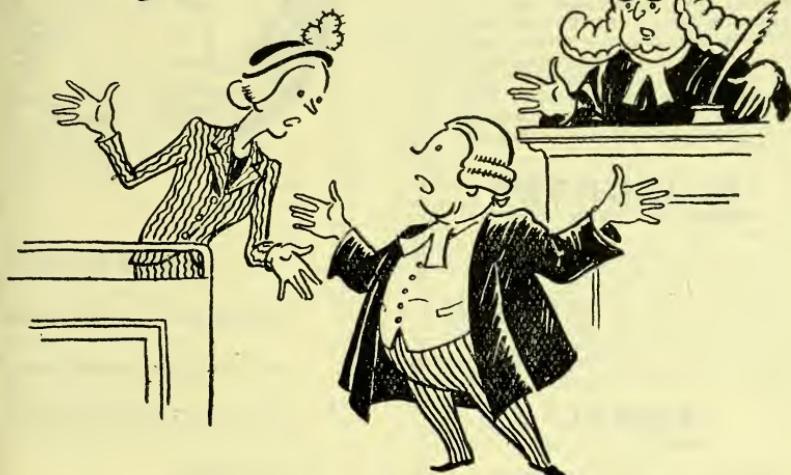
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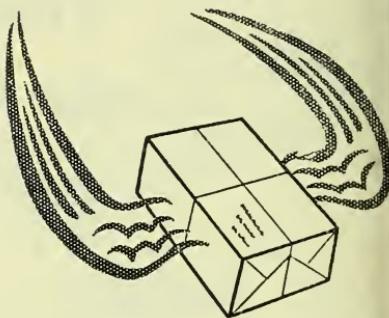
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CHEMIST AND DRUGGIST

for RETAILER — WHOLESALE — MANUFACTURER

JANUARY 31, 1948

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NEWS OF THE WEEK

1947 Birth Rate.—The number of live births registered in England and Wales during 1947 was 886,633 (the highest figure since 1920) representing a birth rate of 15.5 per 1,000 population.

N.H.S. "Appointed Day."—An Order-in-Council made on January 26 formally prescribes July 5 as the "appointed day" on which the National Health Service Act will come into operation. [The National Insurance Act and the National Insurance (Industrial Injuries) Act, also come into operation on July 5.]

H.S. Hospital and Specialist Services.—The Minister of Health has issued regulations (S.I., 1948, No. 60) prescribing duties, not already specifically imposed by the National Health Service Act, 1946, to be performed by Regional Hospital Boards, Hospital Management Committees and Boards of Governors of teaching hospitals in the administration of hospital and specialist services.

Grants for Veterinary Education.—The University Grants Committee, the Ministry of Agriculture and Fisheries and the Department

ment of Agriculture for Scotland have appointed an inter-departmental committee, with Dr. A. E. Trueman, F.R.S., as chairman, to inquire into the financial needs of veterinary education in Great Britain.

Doctors' Plebiscite.—In the British Medical Association plebiscite (*C. & D.*, January 7, p. 86) every civilian and Service doctor is being asked to state (1) whether he approves or disapproves of the Act in its present form; (2) whether he is for or against accepting service under the Act; and (3) whether, should the majority vote against, he will abide by the majority decision. If a majority of doctors, including 13,000 (out of a total of about 20,500) general practitioners vote against participation in the medical service under the Act, the Association will advise doctors, while continuing service to patients, or other professional work, not to enter into any contract. If the majority indicated is not reached, practitioners who, in the plebiscite, undertake not to enter the service, will be released from their undertaking. The doctors have been asked to return the plebiscite forms not later than February 14.

Colonial Office Development. — To assist in increasing production and in saving dollar expenditure, an economic intelligence and planning department has been created in the Economic Division of the Colonial Office.

Holiday Insurance Contributions. — According to the preliminary draft of "Contributions During Holiday Regulations, 1948," issued recently by the National Insurance Advisory Committee, periods (except sick leave) during which a worker gives no services to an employer are to be treated for contribution purposes, under the National Insurance Act, 1946, as holidays with pay if the employer provides direct or indirect payments towards the worker's expenses during such periods.

Atomic Energy Committee Dissolved. — Sir John Anderson has resigned from the chairmanship of the Advisory Committee on Atomic Energy, and the committee, set up in 1945, has been dissolved. On the day-to-day operation of the Government's programme of atomic energy development, advice is now being obtained through the organisation of the Ministry of Supply; on the scientific aspects, through the Advisory Council of Scientific Policy, and the Defence Research Policy Committee, both under the chairmanship of Sir Henry Tizard.

Minister's Views on Health Centres. — Any general programme for the provision of health centres, says the Minister of Health in a recent circular to local authorities, is made impossible for some time to come by the building situation. The alternative, the conversion of existing buildings, is hampered by lack of suitable accommodation and involves a risk that the attractiveness of the health centre idea may be prejudiced by second-rate production. In addition, says the Minister, intensive research about the design of centres is needed before a general scheme is developed and a committee for the purpose is to be set up in collaboration with the Central

Health Services Council. Local authorities concerned are therefore not expected to submit any immediate proposals for the vision of health centres. Proposals by local authorities, in consultation with Executive Councils, consider particularly urgent, or conversion plans that are practicable and attractive, are not out from consideration by the Minister. He is also willing to consider proposals acquiring existing dispensaries, etc., which facilities suitable for a health centre are already provided.

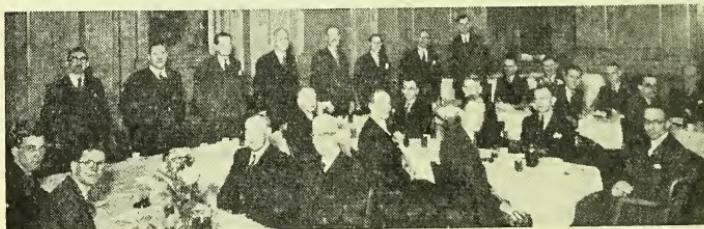
LOCAL NEWS

Tyneside Dinner. — The first annual dinner of the Tyneside Branch of the Chemical Pharmaceutical Guild was held on January 21, Alderman R. E. Jackson, P.J.P., in the chair.

Lecture on Laboratory Animals. — A lecture on "The Production and Use of Laboratory Animals" was given to the mouth Branch of the Pharmaceutical Society on January 21 by Mr. A. Bacharach, M.A. A vote of thanks was proposed by Mr. T. B. Harvey.

Isle of Thanet Branch. — Speaking at the meeting of the Isle of Thanet Branch of the Pharmaceutical Society held at Broadstairs on January 8, Miss M. A. Burr (a member of the Society's Council) reviewed proposed changes in the Society's Charter and educational programme. Pharmacy, she said, was officially recognised in the National Health Service; its future lay in the hands of its members, individually and through their branches.

Sales Luncheon. — At the conclusion of a two-day sales conference in London recently, Sale, Tilney & Co. (Export), 13 Lloyds Avenue, London, E.C.3, entertained their representatives in the pharmaceutical field to a lunch at which the F. David Brand (chairman) presided. Messrs. H. V. Bleackley (managing director) and D. C. Cocks (sales director) were present. Mr. Brand said the company had made good progress in sales to pharmacists and discussed the effects of Chancellor's policy towards advertising on the distribution of new proprietarian



Representatives of Sale, Tilney & Co. (Export Ltd.), at a luncheon in London recently.

Seaweed to Surgery.—Dr. W. A. P. F.R.I.C. (head of the chemical division of the Scottish Seaweed Research Association) speaking in Edinburgh recently, said that alginates extracted from seaweed were used in the manufacture of calcium alginate swabs for surgical use. The swabs eventually absorbed, so that the need for removal was avoided.

Dartford Annual Dinner.—The Romford Branch of the Pharmaceutical Society held its annual dinner and dance at Grays on January 22. The guests included a delegation from the Chelmsford Branch of the Society. Mr. W. D. M. Kemp (chairman) announced that Mr. C. W. Maplethorpe, chairman of the Society's Education Committee, who was to have been a guest of honour, had been prevented by indisposition from attending. In his speech Mr. Kemp referred to the part which pharmacists would be called upon to play in the National Health Service.

Chester N.H.S. Progress.—At a joint meeting of the Chester Branches of the Pharmaceutical Society and the N.P.U., recently, Mr. J. Veitch (a member of the Executive Council) gave a report on the progress which had been made in preparation for the National Health Service. It was agreed that a presentation should be made to Mr. David Price (clerk to the Chester Insurance Committee) in recognition of services since the formation of the committee. A collection was made for the Pharmaceutical Society's Benevolent Fund.

Merthyr Film Show.—At a meeting of the Aberdare and Merthyr Branches of the Pharmaceutical Society, held at Merthyr on January 7, Mr. H. Parry (chairman), in the chair, Mr. J. Ellis Price introduced the film "The Preparation of Diphtheria Toxin and Prophylactics" (Burroughs Wellcome & Co.). Members showed great interest in an exhibition which Mr. Price arranged and which included a sample of anti-diphtheria serum in its original package of 1896. The package had been found at Aberdare some years ago, said the speaker. The local health authorities must have been well to the fore in those days, he said, as the serum had first been used only two years earlier. The secretary drew members' attention to the facilities available at the Society's convalescent home, Birds-House.

Dundee Whist Drive.—More than 200 members and friends attended the annual whist drive and dance of the Dundee and

East and Central Scottish Branch of the Pharmaceutical Society on January 14. Whist prizes were won by Mesdames



Dancing in progress at a dance organised by the Dundee Branch of the Pharmaceutical Society.

W. B. Forbes, J. B. Coupar and M. Macfarlane, the Misses J. Alexander, I. Nicoll and L. C. Ramsay, and Messrs. MacCallum, A. Ramsay, W. Davie, J. B. Ferrier and J. Bennie. Mr. G. Mitchell (vice-president) acted as master of ceremonies for the dancing, and Mr. C. W. Macfarlane, introduced by Mr. A. R. Lowson (chairman), distributed the prizes.

C. & D. Editor at Dartford.—At a meeting of the Dartford Branch of the Pharmaceutical Society on January 19, Mr. W. F. Parry in the chair, Mr. O. F. C. Bromfield (Editor, THE CHEMIST AND DRUGGIST) spoke on "The Production of a Modern Weekly Trade Newspaper." The C. & D., he said, had been founded in 1850 as a genuine trade newspaper, designed to further the interests of pharmacists as a whole. Under present conditions of paper shortage, it aimed at giving news and information concisely and systematically for the convenience of the reader. The work of the Editor and his staff consisted in reading, selecting and condensing news and information sent in each day by staff reporters and correspondents at home and abroad. All items received were carefully considered, and special arrangements were made to secure complete coverage of important pharmaceutical and scientific events. Mr. Bromfield passed round specimens of articles after they had been subedited, with their corresponding proof sheets as returned by the printer, and a copy of the first issue in the reproduction of an illustration. A vote of thanks was proposed by Mr. L. G. Murphy and seconded by Mr. L. T. Gadge.

OVERSEAS NEWS

Whale Insulin.—Dr. H. C. Hagedorn (head of the Insulin Laboratorium, Denmark) has left for Norway to join a whaling expedition with the aim of extracting insulin from whale pancreas.

Leipzig Fair.—Cosmetic, drug and pharmaceutical concerns totalling 400 are among exhibitors at the Leipzig Fair (March 2-7). A feature of the pharmaceutical section will be a new snake-venom product used in rheumatism.

Streptomycin Unit.—A unit of streptomycin adopted by the Division of Medical Sciences of the National Research Council is equivalent to 0.001 mgm. of pure streptomycin base (equivalent to the former "S" unit).

West Indies Imports.—A conference is being held in Barbados shortly to review the effects of recent import restrictions. Representatives of all the British West Indian colonies concerned will be present with officials of the United Kingdom Treasury and of the Bank of England.

Danish Penicillin.—A factory which the Danish Roskilde Medicinal Kompagni is constructing for large-scale production of penicillin is now expected to start operating in the autumn. Delay has been caused by difficulties in obtaining equipment and raw materials from U.S.A. and Britain.

Egyptian Medicinal Herbs.—The Egyptian authorities are considering ways of increasing the extent of desert areas given over to the cultivation of medicinal herbs for home consumption and export, and have set up for the purpose a technical department under the direction of the High Council of Climatic Centres.

Madagascar Lemongrass Oil Production.—Estimated production of lemongrass oil in Madagascar during 1947 is approximately thirty metric tons, most of which will be for export; total shipments from this source in 1946 amounted to forty-five metric tons. The area under lemongrass cultivation is now about 75 per cent. of the previous year's.

Italian Chemical Exports.—Italian shipments of chemicals have been at a monthly rate of 300-400 million lire, mainly to countries paying in free currencies. The main volume has been taken up by the sterling area: Great Britain, Palestine, South Africa, India, Egypt, Turkey and South America have also been important

outlets. Tartaric acid, citric acid and citrus essences are amongst the principal products exported.

Greek Trade with Bizonia.—A programme just announced for trade between Greece and the British and United States zone of Germany calls for the export of manufactured goods to Greece in return for raw materials in short supply in west Germany. German sales will include pharmaceutical and chemical products and scientific instruments. Greece is expected to export pyrites and other minerals, turpentine sponges, and tobacco.

N.Z. Veterinary Remedies Control
Under the New Zealand Stock-remedies Regulations, 1947, existing licences "stock remedies" (substances manufactured, advertised or sold as remedies for general use for the cure or prevention of disease or parasites in stock) expire on June 30, and re-registration, which was suspended during the war, again becomes necessary. Applications must include copies of labels, advertisements and leaflets used in connection with each remedy, with a statement of formulae of preventive or remedial properties claimed. Wholesalers have been asked to lodge applications with the Registrar, Stock-remedies Registration Board, c/o Department of Agriculture, Wellington, C.I., February 29.

IRISH NEWS

Cork Guild of Pharmacy.—Mr. R. Clarke presided at the January meeting of the Cork Guild of Pharmacy, at which a heavy agenda covering business, educational and social matters was dealt with.

Belfast Allergy Lecture.—Mr. Cha Beaven, Ph.C., A.R.I.C., at a meeting of the Pharmaceutical Society of Northern Ireland in Belfast on January 21, gave a lecture on "The Riddle of Allergy." The audience included a number of doctors whose vote of thanks was moved by Mr. W. C. Tate and conveyed by the president of the Society (Mr. John McGregor).

N.I. Research Council.—A Council of Scientific Research and Development has been formed by the Northern Ireland Ministry of Commerce to advise on scientific questions connected with the development of natural resources and to promote the increased application to industry of developments in pure and applied science, to arrange for research work and wider dissemination of scientific knowledge.

TOPICAL REFLECTIONS

pharmaceutical Research

Pharmacists owe thanks to Mr. A. G. Fishburn for his address on "The Place of Pharmaceutical Research in Medicine" (p. 120-23). Mr. Fishburn restated ideas expressed from time to time in your editorial section and elsewhere; to that extent he was preaching to the converted. He added, however, some ideas of his own, and both kinds of ideas are worth emphasis. A good instance of shrewd observation is the remark that in some technical processes resembling those of pharmacy natural products have to a great extent been abandoned in favour of synthetic auxiliary agents." The fact is that when we apply to Nature for raw materials, we tend to realise that Nature is not invariably aiming at the same object, nor even the same type of object, as we are. The most original part of the address, I think, was the suggestion that a Pharmaceutical Research Council should be formed "for the dual purpose of guiding pharmaceutical research and collaborating with the Medical Research Council." At first sight it may appear that the work of such a council would overlap with that now in progress under the auspices of the Committee on Unification of Pharmacopoeias. Undoubtedly we do not desire councils or committees which may make conflicting claims for research. But with due care in formulating objectives, this difficulty need not arise. Pharmaceutical research in this country is mainly directed and carried out in the laboratories of manufacturing houses. It follows that whether or not any British Government is willing to make an annual grant for such work (as in the case of the Medical Research Council), the work will, except for specialised investigations undertaken in university and hospital laboratories, be primarily the concern of directors and their scientific staffs.

Qualified Optimism

The heading "Brighter Prospect for Pharmacy" (p. 110) arouses a natural curiosity—I almost wrote "national" for "natural." While passing through a period of "bread today and jam tomorrow," I can derive a certain satisfaction from optimistic forecast like that of Mr. G. A. Mallinson made at Birmingham. Mr. Mallinson speaks with acknowledged authority; and when he expresses the view that the prospect for pharmacy is brighter than ever before, we know there is a reason

for the statement. Yet there is in this forecast a note of caution. Higher standards of education, we read, will "not necessarily ensure higher rates of remuneration." The reference is, I presume, to contracts to be negotiated under the National Health Service scheme. It may be some time before prospective panel contractors know the result of the inquiry now in progress regarding the cost of dispensing; after that there will probably be lengthy discussions between the Contractors' Committee of the National Pharmaceutical Union and the Ministry of Health. Each side will, if precedent is followed, make the best use of its own interpretation of the figures. On another subject Mr. Mallinson gave an opinion with so much plain sense that there should be complete agreement with him by qualified people. It would be a mistake, he said, to change the respective functions of the N.P.U. and Pharmaceutical Society.

Obscure Calligraphy

While I should be sorry to disparage the reforming zeal of Mr. R. E. Bell, I cannot agree with his dictum (p. 127) that you and the Pharmaceutical Society might cease to recognise the existence of difficult calligraphy in prescriptions. Unless the use of typewriters by prescribers is made compulsory, there will always be differences in the characteristics of handwriting in prescriptions. If I am not mistaken, the form that letters take in a script is an expression of the writer's personality at the time of writing. When discussing handwriting with me a few years ago, a medical man remarked that his written words tended to begin with legible letters and then to tail off into a wavy line. Many dispensers have had experience of this phenomenon. What can be done about it? Not, surely, to begin lecturing the medical profession; for though average legibility may be higher in pharmacy than in medicine—and I believe it is—not every pharmacist writes a copperplate hand. If, as your correspondent indicates, present-day medical students are being taught to play about with insignificant changes in nomenclature and symbols, the need for vigilance at the dispensing counter is not likely to lessen in the near future. On the contrary, with an increase in the number of prescriptions written, including some from practitioners who have been doing their own dispensing, that need will become greater.

Xrayser

DEATHS

ADDERLEY.—Recently, Mr. Frank Adderley, M.P.S., The Broadway Pharmacy, Meir, Stoke-on-Trent, Staffs. Mr. Adderley qualified in 1921.

BLORE.—On October 25, 1947, Mr. George James Blore, M.P.S., Ivy Cottage, Great Longstone, Bakewell, Derbys. Mr. Blore qualified in 1890.

BURTON.—At the Manse, New Road, Stourbridge, Worcs, Miss Barbara Winifred Burton, M.P.S., 3 Beech Grove, Beverley Road, Hull, Yorks, aged thirty-one.

COSTIFF.—On January 4, as the result of an accident, Mr. Leslie Harold Costiff, M.P.S., 5 Station Road, Cippenham, Bucks. Mr. Costiff qualified in 1921.

HIND.—At the Royal Infirmary, Leicester, on January 8, Mr. John Archibald Athelstan Hind, M.P.S., Harcourt Street, Kibworth Beauchamp, Market Harborough, Leics, aged sixty-three.

HOWELL.—At Guy's Hospital, London, on January 21, Mr. Frederick David Howell, M.P.S., 412 Limpsfield Road, Warlingham, Surrey, aged forty-nine. Mr. Howell is survived by his widow and a son.

IRVING.—Recently, Mr. Eldred Irving, Ph.C., the Medical Hall, Victoria Street, Dargaville, New Zealand. Mr. Irving qualified as a chemist and druggist in 1900 and passed the Pharmaceutical Chemist examination in 1913.

MACGREGOR.—On January 9, Mr. Robert MacGregor, M.P.S., Station Lane, Pitsea, Essex. Mr. MacGregor qualified in 1921.

MIDDLEMASS.—Suddenly, on January 21, Mr. Joseph Smith Middlemass, M.P.S., 17 Lorne Terrace, Stockton-on-Tees. Mr. Middlemass qualified in 1905, and was in business at 62 Norton Road, Stockton. The funeral took place at Oxbridge cemetery, Stockton, on January 24, after a Requiem Mass at St. Cuthbert's Catholic Church.

PARRY.—On January 16, Mr. Joseph Parry, M.P.S., 31 Corporation Road, Leicester, aged eighty-eight. Mr. Parry qualified in 1888.

PENN.—On November 3, 1947, Mr. John Walters Penn, M.P.S. Mr. Penn qualified in 1902 and was superintendent pharmacist with T. R. Prime, Ltd., Crystal Palace Parade, Upper Norwood, London, S.E.19.

PREISWERK.—In Basle, Switzerland, recently, Dr. Ernst Preiswerk, for many years head of the research laboratories of Hoffmann-La Roche & Cie, S.A.

SMITH.—At Osterhills Hospital, S Albans, on November 23, 1947, M. Philip Smith, 13 Batchwood, View, S Albans, formerly of 127 Capel Road Forest Gate, London, E.7, aged eighty-five. Mr. Smith qualified as a chemist and druggist in 1894.

STANLEY.—On January 10, Mr. John Stanley, Greystones, Church Street, Mallock, Derbys, formerly of 10 North Pole Road, North Kensington, London, N.W.10 aged eighty-six. Mr. Stanley qualified as chemist and druggist in 1890.

TONKIN.—At Warneford Hospital, Leamington, on January 4, Mr. John Kenyon Tonkin, M.P.S., 14 Victoria Terrace, Leamington, aged seventy.

VYSE.—On December 11, 1947, M. Harold Corfe Vyse, M.P.S., 292 Manchester Road, Denton, Manchester, age forty-five.

WALTERS.—On December 17, 1947, M. John Walters, M.P.S., formerly of The Pharmacy, 62 Station Road, Burry Port, Carmarthens, and Pharmacy Hall, Llanyboidy, Carmarthens.

WHITTAKER.—Suddenly, on January 12, Mr. Robert Whittaker, M.P.S., 860 Manchester Road, Castleton, Rochdale, Lancs, aged sixty-eight. Mr. Whittaker commenced business in Castleton about forty years ago. A past-president of the Rochdale Branch, Pharmaceutical Society, he was for a time a member of the Rochdale town council.

WILKINS.—Recently, Miss Doris Irene Wilkins, M.P.S., Tilton, Borough Green, Kent. Miss Wilkins qualified in 1931.

WOOSTER.—At 38 Park Hill Court, East Croydon, Mr. Herbert Edward Wooster, M.P.S. Mr. Wooster qualified in 1900 and was for over forty years in business at Haverstock Hill, Hampstead, London, N.W.3.

YODAIKEN.—Killed in action in 1945, Mr. Lionel Tobias Yodaiken, M.P.S., whose address in the register is c/o 65 Corhampton Road, Boscombe East, Bournemouth. Mr. Yodaiken was a South African. He was registered as a chemist and druggist in Great Britain in 1940.

LEGAL REPORTS

In Possession of Narcotic. — At Liverpool, on January 13, Albert Thomas, 106 Upper Canning Street, Liverpool, pleaded guilty to being in unauthorised possession of Indian hemp on December 15, 1947. He was fined £50, with £1 11s. 6d. costs, or three months' imprisonment.

Pharmacy Act Fines. — Fines totalling £2, with £4 3s. costs, were imposed at Escot, on December 31, 1947, on Augusta Clarke, The Park, Huyton, Lancs, for selling poison while not an authorised dealer, and other offences under the Pharmacy Acts. It was alleged that she had sold a woman four tablets of a proprietary sulphonamide preparation for the treatment of a wounded dog.

Returned for Trial. — At Dublin, Eire, strict court on January 9, John Dudley Potter, auctioneer, Dublin, was returned for trial on a series of charges (see *C. & D.*, January 10, p. 45). His solicitor said it was not proposed to offer any evidence at this stage.

Pepper Vendors Fined. — At Weymouth, recently, Van Houtan (Indian Spices), Ltd., 3 Globe Chambers, New Cross Road, London, S.E., were fined £20 on each of three summonses connected with a sale of pepper alleged to be adulterated. It was stated that the company sold to a shopkeeper at Weymouth, in response to an order for "1 lb. Java pepper," a mixture of white, black and red mixed with wheaten flour (the flour estimated at 40 per cent.), Van Houtan (a director of the company) was fined £5.

Condition of Sale. — At Chesterfield Court on January 17, George Yeoman Morris, Glassmoor Post Office, Chesterfield, was summoned for imposing a condition of sale, contrary to Ministry of Food regulations, on a proposed purchase of certain toilet preparations at his shop on November 14, 1947. For the Ministry, who prosecuted, it was stated that, on the date of the offence, Morris had placed a card in his shop advertising a special sale of some toilet articles. Three tablets of soap and a tube of shaving cream were to be sold together for 2s. 11d. as a special bargain. A customer who attempted to buy only the soap was told by the girl assistant that he could not have one without the other. The girl refused to make the sale and said later that she was acting on instructions from Morris. A fine of £5 was imposed.

PERSONALITIES

MR. E. WOOLLEY (a director of Cupal, Ltd.) has been appointed to serve on the Blackburn Licensing Committee.

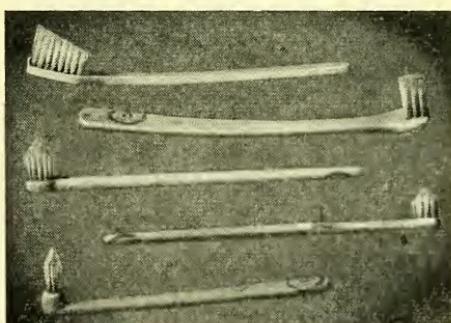
PROFESSOR H. PARTRIDGE, F.R.S., has been appointed president of the physiology section of the British Association.

MR. E. B. WILLIS (a director of Evans Medical Supplies (Ireland), Ltd.) has been elected chairman of the Dublin Branch of the United Kingdom Commercial Travellers' Association.

MR. ALFRED W. MANN, M.P.S.I., Belfast, has returned to business after a long illness. Mr. Mann, who qualified in 1896 and is a life member of the Pharmaceutical Society of Ireland, was decorated recently by the Governor of Northern Ireland with the badge of a Commander of the Order of St. John of Jerusalem.

DR. W. H. GARRETT, J.P., M.B.E., (director of production for Monsanto Chemicals, Ltd.) has been appointed to the panel of employers' representatives on the National Arbitration Tribunal. Dr. Garrett is vice-chairman of the Association of Chemical and Allied Employers, and of the Chemical Trade Joint Industrial Council.

CAPTAIN ROBERT KERR McLAREN, a Queensland veterinary surgeon, who, as an Australian officer, took out his own appendix with the aid of a mirror and a knife during the military campaign in the Philippines in 1944, and who recently received the Military Cross and Bar, is the only son of Mr. James B. McLaren, M.P.S., Dollar, Clackmannans.



SIXTY YEARS OLD. — Early forerunners of modern toothbrushes recently in the possession of Mr. John Thomas, M.P.S., Machynlleth, North Wales. The Editor makes his acknowledgment of two similar brushes, which were also manufactured about 1890, and which have been presented to him by Mr. Thomas.

COMPANY NEWS

COOMBE DETERGENTS, LTD. (P.C.)—Capital £100. To carry on the business of manufacturing chemists, manufacturers of or dealers in and agents for the supply of chemicals, detergents, soaps, toilet requisites, etc. Bernard C. Sparrowe and James W. Irvine, directors. R.O.: 72A Selston Road, South Croydon.

AGRO CHEMICAL CO., LTD. (P.C.)—Capital £25,000. To carry on the business of manufacturers of and dealers in chemicals and insecticides for agriculture, or chemicals used in industry or manufacture, preparation and preservation of foodstuffs, etc. Alexander Monteith, director. R.O.: 32 Ely Place, London, E.C.1.

ELECTRO-MEDICAL HIRE, LTD. (P.C.)—Capital £500. To carry on the business of manufacturers of and dealers in electro-medical, surgical, hospital, anatomical, hygienic and scientific appliances, etc. Lord Cecil Charles Douglas, director. R.O.: Callard House, 74A Regent Street, London, W.1.

HAPPE PRODUCTS, LTD. (P.C.)—Capital £5,000. To carry on the business of manufacturers of and dealers in plastics, chemicals, drugs, medicines, etc. George Schight, George J. Selbie, Ernest L. Selbie, Waldemar R. J. Happé and Roland F. Selbie, directors. R.O.: Room 150, 20 Copthall Avenue, London, E.C.2.

HALEWOOD CHEMICALS, LTD. (P.C.)—Capital £1,000. To carry on the business of manufacturers of and dealers in insecticides, soaps, chemicals, drugs, medicines, etc. Gordon J. Pritchard, chairman, Harold J. Kendrick and Percival F. Cansdale, directors. R.O.: 6 Eldon Street, London, E.C.2.

BUXTON PEAT MANUFACTURE, LTD. (P.C.)—Capital £100. To carry on the business of manufacturers of and wholesale and retail dealers in chemicals, salts, alkalis, drugs, medicines, etc. Mendel Samuel, Joseph Samuel and Maurice Samuel, directors. R.O.: 44 Brazennose Street, Manchester.

BRITISH TRILITE, LTD. (P.C.)—Capital £5,000. To acquire from Nicholas J. Harrison a certain invention known as Trilite inhaler relating to improvements in inhalers for analgesic or anaesthetic purposes, etc. Nicholas J. Harrison and Dr. Duncan Macpherson, directors. R.O.: 184 Horninglow Street, Burton-on-Trent.

JOHN GRAHAM (CHEMISTS) & CO., LTD. (P.C.)—Capital £5,000. To carry on the business of manufacturers of and dealers in chemicals, disinfectants, drugs, toilet requisites, etc. John Graham, M.P.S., Mrs. Joan Graham, Samuel Brockley and Reginald Brockley, directors. R.O.: 99 Leek Road, Smallthorne, Stoke-on-Trent.

KENNEDY O'BRIEN & SONS (MILFORD) LTD. (P.C.)—Registered in Dublin. Capital £50,000. To carry on the business of manufacturers and importers of and dealer in mineral, vegetable and aldehyde oils, etc. Kennedy O'Brien and Kennedy A O'Brien, both of Clyde House, Clyde Road, Ballsbridge, Dublin; Bartholomew O'Brien Seamus O'Brien and Thomas O'Brien directors.

ZIMMER ORTHOPÆDIC, LTD. (P.C.)—Capital £25,000. To acquire the business carried on by Franklin I. Saemann as The London Splint Co. and to carry on the business of manufacturers of and dealers in orthopaedic and surgical appliances, instruments and equipment, etc. Franklin I. Saemann, Cecil F. Greatbach and Miss Phyllis Fearn, directors. R.O.: 69 Weymouth Street, London, W.1.

LIQUIDS CONTROL, LTD. (P.C.)—Capital £5,000. To carry on the business of manufacturers, importers, suppliers, installers, maintainers and repairers of storage and other tanks, containers, pumps, etc., compressors, and meters and all machinery and implements used for the storage, movement, measurement and dispensing of solvents, oils, acids, glucose, spirits and other liquids, used for industrial or other purposes, etc. First directors are to be appointed. R.O.: 194 Finchley Road, London, N.W.3.

CAMWAL, LTD.—Net profit for the year ended September 30, 1947, before deduction for taxation amounted to £17,818 (against £27,041 in the previous year) to which is added taxation reserved written back, £2,621 and £4,656, brought in. An ordinary dividend of 7½ per cent. is recommended compared with 5 per cent. in 1945-46. £5,499 is carried forward. Mr. R. F. Tetley has been appointed a director of the company.

B. LAPORTE, LTD.—The directors are to seek authority to change the name of the company to Laporte Chemicals, Ltd., and propose that the issued £421,000 ordinary stock be reconverted into 421,000 ordinary shares of £1 each. Further, that each of the authorised 825,000 ordinary shares of £1 be sub-divided into four ordinary shares of 5s each, and the 1,684,000 ordinary shares of 5s, each all issued and fully paid in the capital of the company, be converted into £421,000 ordinary stock transferable in amounts and multiples of 5s; all further ordinary shares of 5s, each when issued and fully paid to be converted into ordinary stock transferable in amounts and multiples of 5s. An extra ordinary general meeting to consider the proposal will be held on February 16. The chairman of the company states that at an early date the directors propose to raise additional capital, in order that the company may be able to meet obligations already incurred and to be incurred in connection with the extension of its manufacturing resources and subsidiaries.

THE WEEK IN PARLIAMENT

By a Member of the Press

HEN Opposition M.P.s questioned Sir afford Cripps on January 21, THE CHAN-
ELLOR refused to make any statement on
the possibility of a capital levy. He could
not, he said, be expected to deal in advance
with Budgetary policy.

Patent Office Delays

Long delays in the Patent Office were the
object of a question by MR. PETER FREE-
MAN. MR. J. W. BELCHER (Parliamentary
Secretary to the Board of Trade) informed
him that it would take time to remedy the
situation, but additions had been made to
the staff.

Weights and Measures

MR. F. MESSEY asked the President of
the Board of Trade what progress was being
made by the committee that had been
appointed by the Board to investigate the
enforcement of the Weights and Measures
acts.

MR. J. W. BELCHER: No committee has
yet been appointed to inquire into weights
and measures legislation. The need for such
an inquiry is recognised, and the President
intends to put it in hand as soon as practicable,
but in view of the pressure of other
and more urgent work I cannot say when
it will be. There is no prospect of
any pending legislation in advance of the
inquiry.

Cocoa Prices

THE COLONIAL SECRETARY (Mr. D. R.
rees-Williams) informed MR. A. E. DAVIES
that recent drastic increases in the price of
West African cocoa were part of a rise in
world prices for cocoa, resulting from a de-
cline in production accompanied by a
demand maintained at the pre-war level or
higher. A decline in output in British West
Africa was due partly to disease and partly
to exhaustion of old cocoa areas. The only
effective means discovered of eradicating
the disease was to cut out the trees affected,
a task that was being "vigorously tackled".

The Gold Coast Government. It took
several years for new trees to come into bear-
ing, and the degree of success of the
campaign was not a material influence on
the current price.

Costs of Business Properties

MR. P. PIRATIN asked the President of
the Board of Trade whether, in view of the
orbitant increased charges being asked by
holders of business properties in London and

Gallery, House of Commons

elsewhere, he would take steps to control
the rents. MR. HAROLD WILSON said there
was no power to control rents and prem-
iums charged for business premises, but the
Lord Chancellor had decided to appoint a
Departmental Committee which would consider, among other matters,
whether it was desirable or practicable to
control the rents charged for business
premises.

Economic Survey

MR. D. JAY (Financial Secretary to the
Treasury) informed MR. S. T. SWINGLER
that it was hoped to publish as a White
Paper towards the end of February the
Economic Survey for 1948.

ANALYSTS' REPORTS

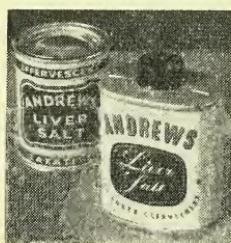
BIRMINGHAM.—The Birmingham city
analyst, in his report for the third quarter
of 1947, states that an eye lotion contain-
ing zinc sulphate, boric acid and procaine
hydrochloride was not labelled "Poison"
or "For external use only." The matter
was reported to the Pharmaceutical Society.
Other samples found incorrect were:
Glauber's salt (75 per cent of the water of
crystallisation lost); methyl salicylate (95
per cent instead of 98 per cent, ester, and
containing water remaining after the bottles
had been rinsed); ammoniated tincture
of quinine with oil of cinnamon (60 per
cent deficient in ammonia); artificial raspberry
vinegar (the word "artificial" in
much smaller type than the other wording);
and sal volatile (1.66 per cent instead of
2.1 per cent ammonia).

SALFORD.—In a report on departmental
work in 1946, the Salford city analyst
states that 1,742 samples under the
Food and Drugs Act were taken in
Salford, 150 in Eccles and 187 in Stret-
ford. It was considered that a sample of
syrup of figs of the manufacturer's own
formula (not B.P.C.), and a sample of
fullers' earth cream containing fullers' earth
4.4 per cent, and zinc oxide 5.1 per
cent, in a base containing lanolin, should
each have borne a label showing the active
ingredients, but action was deferred to
await an interpretation by the Court of
Appeal of the words "substance recom-
mended as a medicine" in the Pharmacy
and Medicines Act, 1941 (see *C. & D.*,
1947.I.484). A sample of fever mix-
ture was deficient by 37 per cent, of the
declared quantity of nitric acid.

TRADE NOTES

Again Available. — Pernæmon Forte, a liver extract of high haemopoietic activity, is again freely available from the manufacturers, Organon Laboratories, Ltd., Brettenham House, London, W.C.2.

New Packs. — SCOTT & TURNER, LTD., Newcastle-on-Tyne, have had the container



of Andrew's liver salts redesigned for them by the Design Group, Ltd., London. The new pack is to be put into general use only after customers have been prepared by two intermediate changes in design. A feature of the new pack (illustrated in this paragraph) is that, by merely twisting the knob and inverting the tin, a spoonful of the contents is delivered without the use of a spoon. — SPLENDOR, LTD., 5 Beastmarket Hill, Nottingham, have completed preparations to issue Splentab pastilles in a new pack.

Calendars. — ORMERODS, LTD., label printers, Rochdale, Lancs, have produced a week-to-the-page tear-off calendar. — An illustrated month-to-the-page calendar is available from A. E. STANNARD, LTD., Vernon Walk, Tadworth, Surrey.

Through Wholesalers. — Curacho Co., 10 Dingwall Road, East Croydon, Surrey, state that ample supplies of Curacho oil-less embrocation are available through trade wholesalers or direct. The item is on the G.F. list.

Price Reduced. — The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, announce that they have reduced the price of the 8-oz. bottles of Lactalumina (6 per cent. colloidal suspension of aluminium hydroxide).

Ampoule Size Increased. — Ciba Laboratories, Ltd., Horsham, Sussex, state that, from February 2, Coramine ampoules containing 2-c.c. will be available in addition to the 1.7-c.c. ampoules that have been standard for many years. It is intended that ultimately the 2-c.c. will replace the smaller ampoule.

Price Increase. — An increase in the price of Dr. Page-Barker's scurf and dandruff lotion from February 1 is announced by the manufacturers, Ilex Supply Co.,

Ltd., 252B Gray's Inn Road, London W.C.1. The preparation is distributed to pharmacists by Thos. Christy & Co., Ltd Farnham, Surrey.

Price List and Booklet. — Paines Byrne, Ltd., Pabyrn Laboratories, Bilto Road, Greenford, Middlesex, have issued their 1948 home trade price list, copies of which are available for chemists, and a eight-page booklet relating to Pabyrn brand proteolysed liver. The preparation issued in 5-oz. tins.

New Bottle-cleaning Machine. — Thomas Hull Engineering Co. (Hull), Ltd 247 Beverley Road, Hull, Yorks, have produced a descriptive folder in two colour illustrating their new Monitor bottle-soaking, brushing and rinsing machine, to the production of which, with other fully automatic units, the company's new No. 2 workshop will be entirely devoted.

Again in Limited Supply. — Authority has been received by Allen & Hanbury Ltd., Bethnal Green, London, E.2, to manufacture a small quantity of Allenburys die. The limited quantity to be made under the permit will be immediately distributed through wholesalers, but will be insufficient to meet all demands. Press notification will be given when continuous distribution can be resumed.

Household Series. — Introduced at demonstration held in London recently,



new range of cleaning products (illustrated by Scrubbs & Co., Ltd., Wimbledo Factory Estate, Morden Road, London S.W.19, is now available to retailers.

New Specialities. — INFLUCOL, LTD Kemtheutic House, Bradford, York announce the introduction of Influcol yellow for immunisation against, and Influcol red for treatment of, the common cold. Press advertising campaign has commenced.—A. & R. SCOTT, LTD., Colinton

idlothan, direct attention to their specialty Inglis food, a specially refined oat flour to which iron, phosphorus, calcium and vitamins B₁ and D have been added.

Sales Conferences.—The annual series sales conferences of S. Maw, Son & Sons, Ltd., Aldersgate House, New Barnet, Herts, is held in London on January 5, 6 and 7.

Discussions took place on "house" merchandising, 1948 sales plans, and newency lines. About fifty managers and representatives attended each day, and the directors of a number of other companies for which Messrs. Maw act as agents were present as guests.

Showstand.—A combined stock and display stand (illustrated) has been produced



an attractive colour scheme of pale blue and orange on a cream ground for the baby foods (strained prune, carrot, spinach and pea and vegetable broth) manufactured and marketed by Brand & Co., Ltd., Vauxhall, London, S.W.8.

Proprietary Articles Trade Association

Additions to Protected List (Part 1).—*Knoll, Ltd.*, (distributors, Savory & Moore, Ltd.), Details on request to secretary, P.A.T.A., 43 Gordon Square, London, W.C.1.

Viggleworth, Ltd., Goulds baby cream, 11s. 6d.; tax 33½ per cent., inclusive retail price 1s. 8d.; 12 oz., 10s. 6d. doz.

Alterations (Part 1).—*Bio-Colloids, Ltd.*, S.D.2 liquid skin-treatment, 16s. 4d. doz., tax 33½ per cent., i.r.p. 2s. 6d.; 32s. 8d. doz., tax 33½ per cent., p. 5s.; 54s. doz., tax 33½ per cent., i.r.p. 8s. 3d.; 12 oz., tax 33½ per cent., i.r.p. 14s. 8d. S.D.2 liquid skin cream, 32s. 8d. doz., tax 33½ per cent., i.r.p. 5s.

H. Cox & Co., Ltd., Auvergne salts, 9s. 6d.; tax 33½ per cent., i.r.p. 1s. 9d.; Nazalgene m, 7s. 9d. doz., tax 33½ per cent., i.r.p. 1s. 4d.;

Silvettes (for obesity), 13s. doz., tax 33½ per cent., i.r.p. 2s. 10d.; liver tonic, 12s. doz., tax 33½ per cent., i.r.p. 2s. 4d.; nerve tonic, 14s. doz., tax 33½ per cent., i.r.p. 2s. 10½d.; Zom pile tablets, 25's, 7s. doz., tax 33½ per cent., i.r.p. 1s. 4d.; 50's, 10s. 3d. doz., tax 33½ per cent., i.r.p. 2s. Zomex brand pile suppositories, 16s. doz., tax 33½ per cent., i.r.p. 3s.

R. Demuth, Ltd., Skreen insect repellent, 4-oz., 19s. 6d. doz., tax 33½ per cent., i.r.p. 3s.

Duncan, Flockhart & Co., Ltd., Antiseptic dusting powder (Duncan), 1-lb., 36s. doz., tax 33½ per cent., i.r.p. 5s. 6d.

Evans Medical Supplies, Ltd., Medisoap, No's 10, 18, 19, 11s. doz., tax 33½ per cent., i.r.p. 1s. 8d.

Knoll, Ltd., (distributors, Savory & Moore, Ltd.), Details on request to secretary, P.A.T.A.

May, Roberts & Co., Ltd., Verax vapour-rub, 8s. doz., tax 33½ per cent., i.r.p. 1s. 3d.

Middlesex Laboratory of Glandular Research, Ltd., Malestrin, Prejestrin, Femestrin and Sterestrin cachets, normal potency, 15s. each, tax 33½ per cent., i.r.p. 25s.; strong, 22s. 6d. each, tax 33½ per cent., i.r.p. 37s. 6d.

Pharman (Birtley), Ltd., Pharman's medicated dusting-powder, in boxes, 4s. 9d. doz., tax 33½ per cent., i.r.p. 9d.

R. Demuth, Ltd., Skreen insect-repellent, 4-oz., 19s. 6d. doz., tax 33½ per cent., i.r.p. 3s.

Sangers, Ltd., Pylitna pile powders, 29s. 6d. doz., tax 33½ per cent., i.r.p. 4s.; Holdroyds pills, 12s. doz., tax 33½ per cent., i.r.p. 1s. 8d., 34s. doz., tax 33½ per cent., i.r.p. 4s. 6d.

Savory & Moore, Ltd., Martindale's amylnitrite Steroles, 27s. doz., tax 33½ per cent., i.r.p. 3s. 9d.

Wigglesworth, Ltd., Opas tablets, Manufacturers are withdrawing 4-oz. carton and introducing 6-oz. sealed tin: 14s. 6d. doz., tax 33½ per cent., i.r.p. 2s. 3d.; one doz., 13s. 6d. doz.; three doz. display orders, 10s. doz.

BUSINESS CHANGES

FINLEY-KALE LTD., have removed to 27 Balham Hill, London, S.W.12 (Telephone: Tulse Hill 3338).

A. L. SIMPKIN & CO., LTD., have transferred their London offices to 66 Finsbury Pavement, London, E.C.2.

D. G. BINNINGTON & CO., LTD., have transferred their offices and factories to North Eastern Road, Thorne, Doncaster (Telephone: Thorne 2291-92).

THOMAS MARNS, LTD., announce that their representative, Mr. N. Moore, is now covering the counties of Kent, Sussex, Surrey, Essex, Middlesex and Hertfordshire, as well as the London district.

MR. PETER JONES, M.P.S., until recently representative in Canada for Glaxo Laboratories, Ltd., has taken up an appointment in the company's medical department at Greenford, Middlesex.

CIBA LABORATORIES, LTD., have acquired a site on the Pyewipe industrial estate of Grimsby Corporation for the erection of a pharmaceutical manufacturing plant.

YORK CO-OPERATIVE CHEMISTS' SOCIETY, LTD., are taking over, on March 1, the Tang Hall Pharmacy, Tang Hall Lane, York, at present carried on by Mr. J. G. Mackie, M.P.S.

AEROSPORIN

Chemotherapeutic and clinical trials of a new antibiotic that shows promise as a curative agent in the treatment of whooping-cough

CHEMOTHERAPEUTIC and clinical studies of aerosporin, an antibiotic compound produced by an aerobic, spore-bearing bacillus identified as *bacillus aerosporus* (probably identical with *B. polymyxia*) have been carried out by Brownlee and Bushby ("Lancet," January 24, p. 127) and Swift (*Ibid.*, p. 133). The first report is concerned with the effectiveness of aerosporin in experimental infections with gram-negative bacteria, against which its action was found to be highly selective. *In-vitro* and *in-vivo* comparisons of aerosporin with streptomycin and with other chemotherapeutic agents are tabulated, and the findings point to a high bactericidal power in the antibiotic, reflected both in the degree of protection it affords to infected animals and in its reluctance to produce resistant strains. When aerosporin and streptomycin were administered (in doses proportional to their *in-vitro* titres) to mice infected experimentally with *H. pertussis*, aerosporin gave a higher degree of protection than streptomycin, and a rapid elimination of the infection, contrasting with the failure of sulphonamides, despite beneficial action, to secure elimination. A likelihood that the drug would exert a demonstrable effect in enteric fever was supported by tests *in vitro* against *S. typhi*, in which the organism showed a greater sensitivity to aerosporin than to streptomycin. The drug also had a high activity against strains of *H. influenzae*, and was equally as effective as streptomycin against intracerebral infections in mice.

The suggestion is made that, as the compound exerts its bactericidal action at the same speed in broth and in water, without apparent morphological changes in bacteria submitted to sublethal doses, it acts by interfering with a system "more immediately vital than reproduction." Aerosporin is found useless in systemic infections because it does not enter the blood stream from the alimentary canal. In intestinal infections, on the other hand, combined oral and parenteral administration may prove effective. A serious disadvantage is that the compound is not excreted either in bile or in urine, "at least not in a biologically active form"—apparently the molecule is too large to pass the kidney barrier. The antibiotic has a high intravenous toxicity, but it is con-

sidered that there is an ample margin of safety in the fact that the minimum lethal dose (L.D. 50) averages 30-40 mgm. per mil, while the average therapeutically effective dose is 0.2-0.4 mgm. per mil.

Chemically, aerosporin is a basic peptide. The standard of reference is a hydrochloride approaching chemical purity and containing 10,000 "units" per mgm. The action of aerosporin is bactericidal. It is not haemolytic and has about the same toxicity to leucocytes as penicillin. The time taken to kill bacteria depends on the number present and on the concentration of the compound. Concentrates of the antibiotic are at present more or less contaminated with antidiuretic principles and a substance that causes damage to the renal tubules. The second substance is not present in purified material and it has not been shown that the antidiuretic principles act in man. *In vitro*, aerosporin has a more selective activity than streptomycin, since it is restricted to several gram-negative pathogens against which its activity, however, is ten to many hundred times greater. It is inactive against the tubercle bacillus. Aerosporin gave complete protection against *H. pertussis* in experimental animals, with elimination of the infection.

Trials on Child Patients

In the clinical trials ten cases were unselected cases of pertussis in children aged one month to 2½ years. The children were treated with doses of 0.4 mgm. intramuscularly at four-hour intervals in mild infections, and with 0.8 mgm. doses at four-hour or three-hour intervals in severe infections, the treatments being continued for five days; at the end of four hours at the dosages given, the blood-aerosporin levels were 0.2 mgm. and 0.4 mgm. per mil respectively. All cases showed a definite response in the first forty-eight hours, but the ultimate benefit appeared to depend rather on the duration of symptoms before the start of treatment than on the severity of the disease or the age of the patient. Swift suggests that aerosporin alone may prove effective in early pertussis cases treated before the secondary infection has taken place. In late cases, it may be more effective in combination with a sulphonamide. Supplies of aerosporin are not yet commercially available.

WORK OF GLYN-JONES MEMORIAL FUND

WHEN Mr. H. E. Chapman (secretary, Proprietary Articles Trade Association) addressed the West Ham Association of Pharmacists on "The Glyn-Jones Memorial Fund" on January 21, his subject was of particular local interest, for in his audience were several members who had personally known Mr. (later Sir) William Glyn-Jones when he was the proprietor of a small business in the East End of London.

Glyn-Jones's Career

MR. CHAPMAN began with a brief account of Glyn-Jones's career: his work against price-cutting, culminating in the foundation of the P.A.T.A.; the establishment of the Chemists' Defence Association; his career as a barrister, as a Member of parliament, as a member of the Council of the Pharmaceutical Society (and later as secretary and registrar). Sir William's work against price-cutting, said the speaker, had aroused the admiration of visitors from Canada and the United States, and

in 1925 he had been invited to cross the Atlantic to put his advice and experience on the disposal of the drug trade in those countries. In the United States it was found that the Sherman Laws precluded any American equivalent of the P.A.T.A. so the task of setting up a Canadian P.A.T.A., Sir William, although his health was failing, devoted all his energy and enthusiasm. After a brief visit home he turned to Canada to deal with a Government investigation into the legality of the new Association, and died shortly afterwards, at Vancouver, in September 1927. The following year a fund was launched to perpetuate his memory. A target of £10,000 was set, but the first appeal in May 1928 brought in only just over £4,000.

It was decided to use the fund to help less fortunate young persons or orphans connected with pharmacy, a cause that would have appealed strongly to Sir William. The first trustees were Messrs. Hugh N. Lindhead (secretary, Pharmaceutical Society), J. A. Mallinson (secretary, National Pharmaceutical Union), David Lloyd Howard (Drug and Fine Chemical Manufacturers' Association) and H. E. Chapman (P.A.T.A.). When Mr. Howard died, his work as a trustee was taken over by Mr. Ernest A. Mynney. In 1933, when the trustees announced that the Fund was open for applications, the country was experiencing a period of depression, in which pharmacy suffered. In the first year eighty-eight appli-

cations were received, some of them revealing unbelievable hardship, but it was found possible to make only eight grants. Each case was investigated sympathetically, but thoroughly, often with the independent help of the secretary of a local branch of the Pharmaceutical Society or the head of a local school of pharmacy. The yearly income from capital totalled only about £200. Despite a further appeal, a donation by the P.A.T.A. of £1,000 in five annual amounts, and a similar donation by Lord Leverhulme, the Fund continued unable to satisfy all demands. The most recent appeal, made in 1946, had brought in another £1,000 from the estate of the late Lord Leverhulme, and the P.A.T.A. had donated another £200 to mark its golden jubilee, while £1,888 (of which £1,000 was donated by the Beecham group of companies) was collected from P.A.T.A. members. In 1947, with more reserves available, the Fund was able to make grants (and on a more generous scale) to fifteen out of sixteen applicants. Almost without exception the recipients of grants had justified the confidence placed in them. Mr. Chapman said that, despite the increasing Government responsibility for education, cases of hardship would continue to exist, and he appealed for continued support for the Fund.

Donations Still Needed

MR. J. REED, from the chair, said he had had experience of the way the Fund worked, having acted as a referee. He suggested that each member should contribute 5s. annually.

MR. W. H. CLOUD said that remarks made by speakers at previous meetings had conveyed the impression that the Fund was not in urgent need of money, and he was distressed to learn that its only regular income was interest on the original capital. The N.P.U. might help by including on its subscription form a space for donations for the Glyn-Jones Memorial Fund in the same way that the Pharmaceutical Society collected for its Benevolent Fund.

Ampoules for Poisons.—A correspondent in the "British Medical Journal" (January 10) suggests that all vials and ampoules containing dangerous solutions or tablets should be grooved or fluted on the outside to be immediately distinguishable to the touch, and that the glass should be appropriately marked in a vivid colour.

EARLY YEARS OF GLYN-JONES

A note on the boyhood, youth, studentship and first pharmaceutical experience of the founder of the Proprietary Articles Trade Association.

By Ernest C. Cripps

I HAVE no personal knowledge of the early years of the late Sir William Glyn-Jones, to whom, for the sake of brevity, I shall allude in these few notes as "G.J." Some sixteen years or so ago I collected information relating to his boyhood and young manhood from schoolmates, fellow apprentices, relatives and others. I set these down, not necessarily in chronological order, but in an attempt to give an idea of how he appeared to them from childhood until he qualified as a pharmacist in 1891.

A Merry Boy, Full of Fun

He is described as a boy somewhat slight in build, with dark hair and eyes, pale, and with a very attractive and musical voice. He had a passionate love of music which characterised him right through his life. He was a very merry boy, full of fun and extraordinarily keen in all that interested him, and given to playing pranks, one of which landed him for a short time in the Aberdare police station! On one occasion he climbed every lamp-post along a well-known street and turned out the lights! Gas was the illuminant in those days and the street lamps were turned off and on by a man who used a special pole for the purpose. G.J.'s father had some difficulty in getting him released without any "legal" punishment!

Gift of Expression

He went to several schools in Aberdare and neighbourhood and at one of them he was a weekly boarder. He enjoyed there the reputation of a youthful "spell-binder," because of his reading and telling stories at night to the other boarders with dramatic and even startling effect. Even then he had a great gift of expression and an easy flow of language; from his early years he had loved nothing better than a good debate. His opportunities for gaining experience in debating were provided through membership of the debating societies connected with the Free churches in the town. In those days churches of the "institutional" type provided practically the only social and cultural amenities available. Debating societies, educational classes, choir practices and musical societies, summer out-

ings, as well as Sunday worship, formed the background of the lives of many youths and "G.J." took full advantage of them. From his early years he was an earnest church worker: at his funeral, eloquent and touching testimony was paid to his work as one of the founders and office bearers of St. George's Presbyterian Church, Golder Green. It was probably in connection with one of his debating societies that a mock trial was staged at which he was appointed the judge, and his correct deportment and the legal acumen he displayed appear to have been remembered by many of his contemporaries for a considerable period subsequently.

Phrenological Advice

One of the problems his father had to solve was to find a suitable career for him and with this object in view he took him on leaving school, to a phrenologist for an examination of his "bumps." This was quite a parental practice in those days and the report was that he would develop great ability but would be uncertain how to apply it! He would need to cultivate application and concentration, warned the phrenologist.

For a time a place was found for him in the office of a mining engineer and he must have had some experience in coal pit. Why he was eventually apprenticed to a pharmacist is not too apparent, as I gathered from more than one who knew him then that he had no special predilection for pharmacy; if anything he was attracted to the law. He had opportunities for making himself familiar with legal formalities, as his father was managing clerk to a firm of solicitors in Aberdare, and was also a registrar of marriages. A lad who lived next door to the Glyn-Jones family and actually remembered "G.J." being brought, as a baby in arms, from Worcester, where he was born, told me that in his father's absence on out-door duties "G.J.", sometimes assisted by his brother and sisters, would attend to office callers in his absence and would take particulars of banns of marriages, etc. His father had good knowledge of law. "G.J." used to state that he himself could not hold a candle to him in this respect.

Apprenticeship at Aberdare

It was finally decided that the boy should be apprenticed to the late Mr. J. Richards, pharmacist, of Aberdare, who appears to have been a friend of the family. The period of apprenticeship was four years, a year longer than usual, so that his apprentice-master could recoup himself for the absence of the usual premium. The business was of the mixed type, fairly common in those days in the provinces, and the illustration below is from a photograph of the business taken about sixteen years ago. In addition to the usual pharmaceutical trade, some agricultural and horticultural work was done. Wall-paper was sold, as well as newspapers and stationery. "G.J." certainly had a varied experience there and, after it, no doubt, could do many jobs other than those connected with pure pharmacy! A fellow apprentice with him has sent me the following; it is in his own words.

"In those days it was customary to sell packets of home-made floor-polish consisting of beeswax and turpentine. This was prepared by shredding the wax into a stone jar into which turpentine had been added and placed in a warm place in order to dissolve the wax gradually. Evidently this was too slow a process for "G.J."; he straight away placed it in the kitchen oven! In the meantime he was called away but ultimately, remembering the floor-polish, he hurried to the kitchen and opened the oven door, whereupon the jar broke, and the wax caught fire, forming a trail of fire along the kitchen floor. The flames quickly spread causing a deal of damage, needless to say highly incensing his employer."

Post as Assistant

The late Mr. J. Reynolds, Mountain Ash, recalled how "G.J." and himself, at the end of their apprenticeship, went to an Aberdare Seminary to prepare themselves for the old preliminary examination of the Pharmaceutical Society, then held at various centres in the country and usually resided over by the local secretaries of the Pharmaceutical Society. Both were determined to leave Aberdare at the

earliest opportunity, and eventually "G.J." got a post as assistant to T. D. Vint, Hastings, while Mr. Reynolds acted in a similar capacity to Messrs. Neve & Co., St. Leonards. He came into contact with "G.J." again when both were students at the City School of Chemistry and Pharmacy in Chancery Lane, London, "G.J." qualifying in June 1891 and Reynolds in the December of that year. "G.J." acquired his training while attending evening classes at the School; during the day he acted as dispenser to a Bermondsey doctor at 15s. per week! Upon this pittance he had to live and pay the fees for his classes: truly a case of "plain living and high thinking." The school he attended was run by a Welshman and was popular with students from Wales. The principal tutor was T. A. Ellwood, Ph.C., F.I.C.; he eventually became a medical man. In a letter he wrote to me many years ago he stated that he remembered "G.J." as a very hard-working student with no desire or indeed opportunity to join in the "rags" which were common to pharmacy students even in those far-off days.

Application and Concentration

I have often pictured "G.J." after his dispensary work was done, walking from Bermondsey to Chancery Lane and back again, for he could not afford a bus fare. If the statement of the phrenologist was true that he needed application and concentration, those solitary walks through the streets of South-east London, ill-lit and dingy, played no small part in developing those qualities in the P.A.T.A.'s founder.



The Aberdare business in which Glyn-Jones served his apprenticeship. The photograph was taken many years later, under a different proprietorship.



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OL. CXLIX JANUARY 31, 1948 No. 3545

The College and the University

THE intention of the Council of the Pharmaceutical Society to dispose of its College to the University of London, although noticed as part of a combined statement *C. & D.*, January 17, p. 87) dealing also with a proposal (discussed in these columns recently) to sell the uncompleted new building, is in reality a very different proposition. It must be viewed, not as the rectifying of a wrong decision before it is too late, but as an inevitable consequence of changed and changing social and educational conditions.

The College was established in 1842, even before the Charter set out one of the objects of the Society as being to promote "a uniform system of Education." At that time, and for a considerable period afterwards, the school was the only institution at which entrants to the examinations of the Society could obtain their training, other than that gained during indentured apprenticeship. At a later stage individual pharmacists, or even non-pharmacists, set up, as profit-making ventures, other schools of pharmacy in London and in certain provincial centres. They were able to do so successfully not only because there were more entrants to the profession than the Society's College could cope with, but also because the capital required for accommodation and apparatus was, by modern standards, modest, and the chief requisite a natural aptitude for teaching. If additional staff was required its remuneration was on a lower scale than today. Under those conditions, and before the present examination regulations were laid

down, even a postal course had a flourishing career. Such Colleges as the London, the Westminster and the South of England created almost a pharmaceutical quarter at Clapham, London, and inspired a quite remarkable loyalty amongst their students.

Times, and the syllabus, changed. Some of the universities introduced degrees in pharmacy. Many students looked beyond the retail to more progressive positions in manufacture, for which the higher qualification is inevitably more of an open sesame. One by one the commercial schools of pharmacy succumbed to growing economic difficulties, so that today only one remains: the Liverpool School of Pharmacy. That is a special case. It probably depends so much on the personality of its outstanding principal, Mr. H. Humphreys Jones (a former chairman of the British Pharmaceutical Conference) that whether it would survive without him at the head is problematical.

The Society's School was, of course, subject to the same influences as the independent institutions, but they were masked by other factors and modified by changes of policy, so that not until quite recently has it become painfully obvious that the Society could not continue indefinitely the luxury of running its own educational institution. For example, the school became the residuary legatee to many students who, if the other schools had continued to exist, would probably have enrolled there. Secondly, its cost became difficult to separate entirely from that of a new department of the College, the research laboratories, founded in 1926, of which the nutrition department (with its own income from testing fees) was part. Moreover, the College had never, from the start, been required to be entirely self-supporting, since it was regarded in part as an investment in prestige and in part as a factor in securing the control by the Society of the system of training and examination in the profession. Moreover the Society, like the more prudent of the commercial schools of pharmacy, took the step of linking up with the local university (in its case the University of London).

However, these factors, though they temporarily cloaked, could not for ever conceal that expenses were all the time rising

(because, among other reasons, more equipment and more costly apparatus are demanded, and because the remuneration of teachers, especially under the demands of the university, has to be on a higher level), while income had reached the upper limit possible. To go on would mean a contraction of the Society's activities in other directions, and this, as all would agree, was not practical politics, except for minor administrative economies. The resolution to sell the College became inevitable. The question that members of the Society have to consider, therefore, is not whether the College should be retained, however powerful may be the arguments of prestige or sentiment, but simply whether the bargain that is about to be made is the best that could have been negotiated and—more important—whether the Society is losing either in the short or the long run that full control over its qualification which we feel sure most members would wish it to keep. Discussion of those points must be held over for another occasion.

Leisure Under N.H.S.

ENJOYMENT of longer hours of leisure is for pharmacists in Britain one of the few pleasant legacies of the recent war. Regulated hours are themselves a comparatively modern development, and there are still some in pharmacy's ranks who have unhappy memories of seven-day duties and no early closing day, with every night a late night.

In the United States over-long hours are even today worked in many parts, and Mr. Theodore H. McCosh, a Nebraska pharmacist, was crusading for improved conditions when he told members of the American Pharmaceutical Association at a meeting recently that, for fourteen years, he had opened his pharmacy daily at 8 a.m., not closing it till 10 p.m. or midnight. Ill-health then obliged him to close earlier, but he received no complaints from his customers and suffered no fall in his turnover. His new-found leisure gave him, for the first time, the opportunity to play his full part as parent and citizen, and within six weeks all his competitors had voluntarily adopted earlier closing hours. Fortunately no British pharmacist today

is compelled to neglect his family in order to meet the demands of his business, but the near approach of the National Health Service may be causing apprehension amongst some lest its advent, with the extra dispensing involved, may not in some measure bring back something very like the bad old days. If so, they may take heart from the remarks of Mr. J. A. Speed (Clerk to the Lancashire Insurance Committee) who stated recently (*C. & D.*, January 10, p. 55): "There appears no reason why every chemist's shop should not dispense N.H.I. prescriptions up to the hour fixed locally for the closing of shops generally under the Shops Act. After that hour there should be a relatively small and restricted panel of chemists in each built-up area who would keep open until all the local surgeries were closed and who would, amongst themselves arrange for an even more restricted rota service for late-night, Sunday, half-closing day and holiday dispensing." A similar suggestion has been put forward recently by Mr. G. A. Mallinson (secretary of the National Pharmaceutical Union). Under some such arrangement, neither the needs of the public, nor the leisure of the pharmacist, need suffer.

Chemical Exports Progress

WITH the publication of the United Kingdom Trade and Navigation Accounts for December 1947, it is possible to review the overseas trade for the past year and to see how far exports have progressed in the direction of their targets. The aggregate of imports into the United Kingdom during 1947 reached a c.i.f. value of £1,781 millions, or approximately 10 per cent above the planned total. Exports of manufactured goods were, apart from those of 1920, the highest on record in terms of value, totalling £1,137 millions, against a planned total of £1,200 millions. The margin between the values of planned and achieved export totals would have been even wider but for a rise that took place in export prices during the year. In the concluding month of the year, the volume of exports was, in fact, 120 per cent. of the 1938 figure, against a monthly average for 1947 of only 108 per cent. The original target for the twelve months of 1947 was

43 per cent. above 1938 exports. In September the target date was advanced to the middle of 1948, and at the same time the target value for the end of 1948 was put at 164 per cent. of the 1938 total. If these targets are to be achieved the rate of expansion of exports will have to be accelerated during the coming months.

Exports of chemicals, drugs, dyes and colours in the past year totalled £67.4 millions, against £66 millions in 1946 and 22.2 millions in 1938. The monthly average for chemical exports for the last quarter of 1947 (£5,833,000) is an indication of the task that faces the industry if it is to reach the mid-1948 goal of £6,850,000 or 88 per cent. of the 1938 volume. In 1947 the chief markets for British chemicals, in order of importance, were India, Australia, South Africa, Eire, United States, Argentine Republic, New Zealand and British Malaya. It is encouraging that two of these are hard-currency countries. American purchases of British chemicals during 1947 reached a value of £2,594,000, against £1,291,000 in the previous year, while Argentine purchases, although not showing such a large increase, reached £2,480,000, against £2,120,000 in 1946. The mid-1948 target for proprietary medicines is £500,000 per month; the December 1947 total fell just short of £580,000. For other medicines, however, export totals have been less gratifying. The total for the year is high at £8,539,000 against £7,952,000 in 1946, but recently there have been signs that the earlier monthly totals were too high to be maintained, and the December value fell to £622,000 against £945,000 in the corresponding month of 1946. The mid-1948 target for this section of the trade is £1,000,000.

"Patents" in Victoria

The Health (Patent Medicines) Act, 1942, in the State of Victoria, Australia, comes into effect on February 2, although registration of "patent" medicines (required under the Act) is likely to be delayed because the necessary application forms are understood to be not yet available. The Act requires that application for the registration of every "patent" medicine sold in the State shall be made by the

wholesaler concerned. Each application must include a confidential declaration of the proportion of active ingredients of the medicine, full directions for its use, a statement of the purposes for which it is claimed to be efficacious, and a full description of all labels and packages used. Applications are to be considered by a committee consisting of a medical officer of the Department of Public Health, a teacher of pharmacology or *materia medica* appointed in consultation with Melbourne University, a pharmaceutical chemist appointed from a panel nominated by the Pharmacy Board of Australia, and a representative of "patent" manufacturers appointed from a panel of the Proprietary Articles Trade Association of Victoria. A register of accepted medicines is to be kept, with their formulas, and the purposes for which they may be sold and a list (omitting formulas) published in the "Government Gazette." Every package of a registered medicine must bear the words "Registered under the Health (Patent Medicines) Act, 1942" but no other reference to the Act. The sale of unregistered "patent" medicines, or of registered medicines which do not comply in formula, labelling or advertising claims, with particulars entered in the register, becomes an offence. Six months' grace is given to retailers to dispose of stocks held when the list is first published. Medicines prepared extemporaneously or for a specific individual are exempt from the provisions of the Act, as are preparations conforming to the British Pharmacopœia, the British Pharmaceutical Codex, or the Australian and New Zealand Pharmaceutical Formulary, labelled as such.

C. & D. Dispensing Price List

The Chancellor's autumn budget of 1947 effectively prevented the issue of the C. & D. Dispensing Price List in the way that has been usual in recent years—namely with the C. & D. Diary and Year Book. A start was at once made on the immense task of revising every item in accordance with the altered rates of purchase tax. That task has now been completed, and the list accompanies this issue of THE CHEMIST AND DRUGGIST.

THE COMMON COLD

Present knowledge reviewed by Dr. C. H. Andrewes, F.R.S. (National Institute for Medical Research) at a meeting of the Royal Society of Arts

THE mechanism of a typical infection is probably anything but simple. When a parasite and its host have been treading the path of evolution together for many centuries, they have probably reached a state of equilibrium and only when something comes along to upset the balance does it become apparent that there is a parasite there at all. In man, the fever-blisters which appear on the lips or nose during fever are caused by the virus of herpes simplex, which is probably there year in and year out and only shows itself when some stimulus, such as a fever, upsets the balance. In considering how the cold virus causes disease, one must bear in mind that its effects may put it in this class of infections rather than with measles; or it may belong in an intermediate group.

The Cause: Chill or Virus?

What causes a cold? Does contact with another victim always precede infection? Are people wrong who say they get colds from sitting in draughts or getting their feet wet? The fact is well-attested that Arctic explorers exposed to all sorts of hardships away from civilisation get no colds: the dangerous thing for them is coming back to town again. It seems safe to agree that chilling alone cannot cause a cold and that a big dose of virus alone can do it experimentally in the absence of chilling. It is possible that in ordinary life colds arise from a lot of exposure in the presence of a little virus, or from moderate exposure with a large dose of virus. Almost certainly a number of other factors come in to the matter. How to explain the great susceptibility of isolated communities such as those in Spitzbergen or St. Kilda is not easy. It may be that there are lots of cold viruses, producing similar symptoms but no cross-immunity, i.e., one can acquire, after infection, resistance to the virus causing that particular cold but no concomitant resistance to other cold viruses. An alternative explanation seems to be that the cold virus is only "carried" by occasional symptom-free people, and normally keeps going only by being wafted from one extra-susceptible person to another of the same sort, and that, when all the extra-susceptibles are used up, the virus dies out until fresh viruses are introduced. The experi-

ments at Salisbury are in agreement with the idea that resistance to a cold does not greatly depend on when one had one's last cold, but on other factors not understood.

Seasonal Factors

It is well known—and statistics support the popular opinion—that colds are commoner in winter than in summer. It is not known why that is so, but it is not simply a question of temperature. Crowding, such as in cold weather, can hardly be all-important, for in London hundreds of thousands of people travel daily by train, tube or bus all through the year; why should colds not spread in tube trains in rush-hours in July? Whether public transport vehicles are dangerous places for picking up colds is a matter for research.

The plan of campaign in studying the common cold at Harvard Hospital, Salisbury, has been to take nasal washings from people with colds, filter the material to remove the larger bacteria, and drop it up the noses of volunteers to see if a virus is there and, if present, to attempt to grow it in eggs (see *C. & D.*, 1947, I, 78 and 89). So far over 500 volunteers have been to the hospital. It has been learnt that the technique is sound in that "controls," given saline and broth, do not get colds. Bacteria-free filtrates of washings from "cold" sufferers have produced colds in about 50 per cent. of subjects—with possibly a rather lower percentage of "takes" in winter. The colds are mostly mild and of the "runny" type: their clinical features and duration have become known. The time from inoculation to onset has been usually two to three days. The nasal secretions cannot be diluted beyond 1 in 100 and still give "takes." The active agent can be stored for over six months at -76° C. in dry ice and still get "takes": this has enabled the virus to be stored and repeatedly to provide material of known activity. The virus can be passed through a collodion membrane with pores of known size, and its diameter is found to be somewhere near that of the influenza virus—about 1/10,000 mm. No success has been met with in growing the virus in eggs.

In the autumn of 1947, Pollard and Caplowitz, Texas, reported that they had cultivated the cold virus in eggs; and in December 1947 Topping and Atlas (Nat-

Institute of Health, Washington) made a similar claim. Have they been successful where workers in Britain have led? A number of virus strains have been tested by, so far as is known, the same techniques as theirs, but without success. All technical differences may account for the failure, but another explanation is equally likely. The colds produced in Cipping and Atlas's experiments are stated to be of a "thick, severe, form, nothing like what we know as sinusitis" and with a "drip from the sinuses into the throat, fatigue, nasal obstruction, a little fever, mild laryngitis and a . . . cough . . . at the runny-nose, runny-eye sort of cold." The description sounds unlike the colds as have been studied at Salisbury. Tests have shown that many bacteria may be shaken out of handkerchiefs and remain for a time in the air: handkerchiefs in the later stages of a cold are particularly effective germ distributors. Work in progress suggests the possibility that impregnation of handkerchiefs with a disinfectant (phenyl mercuric bromide seems most promising) may make them much less dangerous in this respect. Infected handkerchiefs may be additionally dangerous, by spreading germs on to the hands, and thence on to everything a person touches.

Eventives and "Cures"

As immunity to a cold is so short-lived, should be surprised if the solution to the problem came along the lines of a vaccine. If I were a "cold-cure" is even less of a practical proposition: prevention is better than cure every time. I am told there are 10,000 cold cures registered at the Patent Office. The reason why so many eventives and cures exist is that one's susceptibility to colds is so variable. Many people have colds one year and none the next. If they happen to have used a particular remedy in the second year, they hear by it and recommend it to their friends, or write to us, or take out a patent. In a carefully controlled trial of a vaccine given to students, 55 per cent. of those given the vaccine were satisfied that it had reduced their cold-incidence; but slightly better benefit was claimed by the controls who had received only saline injections. Again, many people tell us that they always know when a cold is coming on; but that they do so and so, or take such and such a remedy, their cold is aborted. Our present experience makes us suspect that a large majority of incipient cold attacks

abort anyway, and that it is only the exceptional infection that breaks right through one's defences and lays one low. This habit which colds have is very convenient for the continued reputation of "patent" medicines.

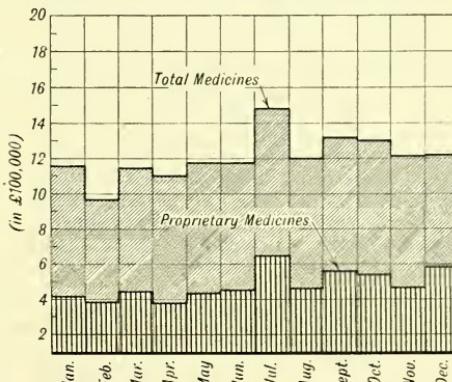
FIFTY YEARS AGO

A Meeting on Price Cutting

(From the C. & D., January 29, 1898).

In accordance with the invitation of the Secretary of the Slocum Chemists' Association, we dispatched a reporter to attend the meeting convened by the Association to consider the conduct of Mr. Scotchem in underselling his brother chemists . . . [He] on rising, was received with that respectful attention which greets a Chancellor of the Exchequer on budget night. He said that some months ago, having a newly established business, and not making much headway, he determined to revise his prices and bring out a price list. He felt sure they would all be extremely pleased to hear that since doing so his business had gone up by leaps and bounds. He was certain that the step he had taken was the right one. He had, however, no objection to support the Indigent Traders' Protection Association, and was prepared to conform to their rules provided his fellow tradesmen did the same The Chairman was about to declare the meeting closed when Mr. Tromm-Bone, hurriedly rising, asked "What about the subscriptions, Mr. Chairman?" Three members then made a sudden dash for the door At this point, Mr. Scotchem came forward, remarking that it gave him much pleasure to give a donation of a guinea to the Indigent Traders' Protection Association.

EXPORTS OF MANUFACTURED MEDICINES, 1947



PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

A MEETING of the Council of the Pharmaceutical Society of Northern Ireland was held in Belfast on January 16, the president (Mr. John McGregor) in the chair. Others present were Messrs. P. R. W. Shinner (treasurer), H. F. Moore, J. Irwin, W. H. Boyd, H. W. Gamble, W. P. Ewart, C. Abernethy, James McDowell, Walter C. Tate, Professor E. B. C. Mayrs and Mr. W. Gorman (secretary). Apologies for absence were received from Messrs. H. H. Cowzer (vice-president), James Glendinning, Hugh Crossin and F. R. Moore, J.P. It was decided to send letters of sympathy to Messrs. Glendinning and Crossin whose absence, it was reported, was due to illness.

THE PRESIDENT complimented Mr. H. F. Moore on his appointment as a governor of Campbell College, Belfast, and the secretary was asked to send a letter of congratulation to Mr. Fred Storey (a past-president of the Society) on the C.B.E. which he had been awarded in the New Year Honours (see *C. & D.*, January 10, p. 43).

Hospital Apprentices

THE PRESIDENT reported on a deputation appointed to confer with the Royal Victoria Hospital, Belfast, on a proposal that the hospital should be permitted to engage pharmaceutical apprentices. He had come to the conclusion, he said, that for the particular hospital, apprentices were essential but legislation could not be passed solely for its benefit. He thought that before any action was taken it would be wise to ascertain the views of pharmacists in other institutions. The Royal Victoria Hospital had informed the deputation that it was anticipated that only one apprentice would be engaged in a period of three years and that the apprentice would be absorbed into the staff after qualifying. It was not a matter of acquiring cheap labour but of having a trained person suitable to the hospital's special requirements. MR. TATE agreed that a good case had been made out for the Royal Victoria Hospital but the implications of the proposal were much wider and required careful consideration. MR. H. W. GAMBLE also considered that the views of pharmacists at other hospitals should be sought; a watch should be kept on the system of having laboratory technicians. MR. EWART stated that an apprentice of his own had proved an excel-

lent hospital pharmacist and suggested that it was not altogether necessary for hospitals to train their own staff. MR. TATE said that if hospital-trained pharmacists were wanted, others would have little chance of securing appointments. MR. SHINNER suggested that hospitals, before being permitted to take apprentices, should have to obtain the approval of the Society and the Ministry. It was eventually decided, on the motion of Messrs. BOYD and IRWIN, to seek the views of pharmacists in other hospitals.

On the minutes of the Education Committee, THE SECRETARY reported that the principal of the Enniskillen Technical School had written to say that he did not intend to proceed farther with an application for a grant.

Sale of Horticultural Poisons

After THE SECRETARY had reported the receipt of notice from a number of health authorities of proposals to grant horticultural and agricultural licences for the sale of poisons, he suggested that the time had come for a stricter watch to be kept on such issues. Their number had now risen to between 250 and 300 and, in order that the provisions of the poisons regulation should be observed, he thought a committee should examine all applications. MR. SHINNER said that, by not stocking such goods, chemists were playing into the hands of other traders. MR. GAMBLE proposed that the Law Committee should be given the duty of keeping the matter under observation. Mr. Gamble's suggestion was agreed to.

Poisons from Welfare Centres

MR. GAMBLE also referred to the sale of medicines containing poisons at the welfare centres of the Belfast Corporation; he believed such sales were contrary to the Act. Certain hospitals were also selling preparations without authority and he was afraid that, under new legislation, the practice might be developed to an even greater extent. He would like to see the matter raised with the Home Office. It was agreed that the Law Committee should deal with the proposal.

Mr. Irwin was appointed to the Education, Law, House and General Purposes Committees, and Mr. Crossin to the vacancy on the Finance Committee.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, February 2

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon Hotel, Southampton, at 7.30 p.m. Mr. T. D. Whittet on "A Survey of Modern Drugs." WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Central Library Hall, Beckenham, at 8 p.m. Debate: "That Pharmacy should be Predominantly Professional."

ROYAL SOCIETY OF ARTS, John Adam Street, Adelphi, London, W.C.2, at 4.30 p.m. Dr. A. C. Frazer (Professor of pharmacology, Birmingham University) on "The Metabolism of Fats."

Tuesday, February 3

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Oak Hall, Baptist Church, College Road, Harrow, at 7.45 p.m. Mr. L. J. Walker, Ph.C., F.L.S., on "Herbs, Their Growth and Processing."

Wednesday, February 4

WEST SUSSEX BRANCH, PHARMACEUTICAL SOCIETY, Kimbell's Café, North Street, Chichester. Mr. A. R. G. Chamings, B.Pharm., Ph.C., on "Allergy and Antihistaminic Substances."

WEST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, and WALTHAMSTOW PHARMACEUTICAL ASSOCIATION, Walthamstow Relief Station, West Avenue, St. Mary's Road, London, E.17, at 8 p.m. Mr. C. W. Maplethorpe, Ph.C., F.R.I.C., on "The Education and Charter Proposals of the Council."

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Bridge School, Station Road, Wealdstone, at 7.30 p.m. Mr. H. W. Tomski on "Principles of Pharmaceutical Economics." (part II).

Thursday, February 5

HAMPSHIRE COUNTY BRANCH, PHARMACEUTICAL SOCIETY, Pattinson's Café, 56 Old Elvet, Durham, at 7.30 p.m. Annual "Grouse Night."

CHEMICAL SOCIETY, Burlington House, Piccadilly, London, W.1, at 7.30 p.m. Papers on "Piperidine Derivatives" and "Strychnine Reduction Products."

Friday, February 6

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION, Carpenter's Restaurant, 3 The Pavement, London, S.W.4, at 7.45 p.m. Mr. L. F. Lamerton, M.Sc., on "Recent Developments in Applications of X-rays and Radioactive Substances."

Saturday, February 7

ORK GUILD OF PHARMACY, Imperial Hotel, Cork. Annual dance.

Monday, February 9

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Market Room, Golden Lion Hotel, Romford, at 7.30 p.m. Professor H. Berry on "The Evaluation of Commercial Disinfectants."

THE CHEMICAL SOCIETY is holding its 1948 annual meeting in Oxford on March 18.

LEICESTER SCHOOL OF PHARMACY is holding its annual reunion at the Bell Hotel, Humberstone Gate, Leicester, on Tuesday, February 17, at 6.30 p.m. Tickets 10s. each, dress optional.

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, holding its annual dance at the Green Man Hotel, Bromley Road, London, S.E.5, on Wednesday, March 3 and not as originally arranged.

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION is holding a "Stag Party" at the Bridge Inn, Port Sunlight, at 7.30 p.m. on Friday, February 13. Tickets (5s. each) from Mr. J. W. Waterworth, 224 Bebington Road, Rock Ferry.

ABERDEEN PHARMACEUTICAL ASSOCIATION is holding a dinner and dance at the Caledonian Hotel, Aberdeen, at 7.30 p.m., on Wednesday, February 11.

HALF A CENTURY IN RETAIL PHARMACY

FIFTY-SEVEN years after having commenced his apprenticeship, MR. S. CLIFFORD JONES (chairman, East Metropolitan Branch, Pharmaceutical Society) confesses that he is still "almost as shy and hesitant as when he first entered a chemist's shop." Speaking on "Fifty Years in Retail Pharmacy" at a meeting of his branch on January 6, Mr. Jones said that, in the days of his apprenticeship, the eternal question was "Strong or mild?" The most popular over-the-counter request was for a penny-worth of antibilious, head and stomach, or steel pills, and the salesman had to find out what strength was required. All pills were made on the premises, a high standard of accuracy being maintained.

Advent of P.A.T.A.

Before price-cutting was mastered by the Proprietary Articles Trade Association a vast amount of work had had to be done for little or no return. The efforts of its founder, Mr. (later Sir) William S. Glynn-Jones, whom the speaker had first known as a brother chemist carrying on in East London a small working-class business similar to his own, had done much to improve the lot of the pharmacist.

MR. JONES recalled the formation, in 1903, of the West Ham Association of Pharmacists, the early efforts of which had been directed to reducing hours of service and instituting a weekly early-closing day. Mr. Jones said the aspects of pharmacy today which struck him as being in most marked contrast with fifty years earlier were the advent of women pharmacists, the introduction of cosmetics and other non-pharmaceutical lines in even the most ethical businesses, the rise of wholesale packers of medicinal preparations, and the preponderance of employees over proprietors.

A vote of thanks was proposed by MR. BLUMENTHAL and seconded by MR. W. E. GAZE. Mr. Jones suitably replied.

MINISTRY OF HEALTH BULLETIN

THE following abstracts are taken from the seventeenth Bulletin to Pharmacists issued by the Ministry of Health.

The Common Cold

By W. H. Bradley, D.M., M.R.C.P.

THE author describes the type of research work being carried out at Harvard Hospital, Salisbury (see *C. & D.*, 1947.I.78 and 89), and gives details of some of the results already obtained (see *C. & D.*, 1947.I.609, and II.708). So far, he states, the virus has not been cultivated outside the human being, and the stage at which it can be handled freely in the laboratory and observed by the electron microscope has not been reached. Not until the virus can be concentrated will it be possible to discover whether a virus vaccine will be of any value in the prevention of colds. The author makes an appeal for more volunteers at the Hospital; suggests that pharmacists would be doing a useful public service by bringing to the notice of their customers the work which the unit is attempting, and in persuading them to take a share in it. He reminds pharmacists that people wishing to try this "enjoyable, free and useful type of holiday" should apply to the Medical Officer, Harvard Hospital, Coombe Road, Salisbury.

Vaginal Discharge

By Mary Michael Shaw, M.B., B.S.
(Royal Free Hospital)

THE term "vaginal discharge" is comprehensive and includes types ranging from excess of normal secretion of the glands in the lower genital tract to the blood-stained discharge caused by malignant growths.

During the reproductive period of life the vaginal secretion is acid (pH about 4.5), the acidity being due to lactic acid. This secretion has been shown experimentally to protect against infection by various organisms. The normal vaginal secretion is white and semi-solid; microscopical examination shows epithelial cells, Döderlein's bacillus, non-pathogenic organisms chiefly of the diphtheroid group, and an occasional group of gram-positive cocci or gram-negative bacilli.

The causes of discharge in the woman of child-bearing age may be grouped as follows: (1) Excess of normal secretion; (2) Trauma; (3) Congestion; (4) Ulceration; (5) Infections.

1. EXCESS OF SECRETION occurs during sexual stimulation and during pregnancy,

and is to be regarded as normal. In young unmarried women, however, the condition is probably due to endocrine imbalance.

2. TRAUMA.—In this category are injuries resulting not only from direct accident but also from chemical irritation and from the introduction of foreign bodies. The widespread use of contraceptives and internal sanitary pads contributes to the incidence of traumatic vaginitis.

3. CONGESTION.—Inflammatory conditions within the pelvis or the presence of pelvic tumours cause congestion which results in increased glandular activity and discharge.

4. ULCERATION.—Discharge from ulcerative lesions is frequently blood-stained; most important of such ulcerative lesions are those due to malignant growths, but blood-stained discharges may also result from unhealed lacerations following delivery, from tuberculous disease of the cervix and vagina, and, to a less marked degree, from infections such as syphilis and chancroid. Most of these conditions are serious.

5.—INFECTIONS.—The two infections most frequently met with are due respectively to *Trichomonas vaginalis* and *Oidium albicans*. *Trichomonas vaginalis* is a protozoan and as a cause of vaginitis has only been recognised for about twenty-five years. Clinically it is associated with thin, irritating discharge, cream or yellow in colour, often frothy and with a characteristic sour smell. *Oidium albicans*, also known as *Monilia albicans*, is a fungus causing a severe vulvo-vaginitis, which occurs chiefly in pregnant women.

GONOCOCCAL INFECTION.—The most important site of infection by the gonococcus in women of reproductive age is the cervix. At first the resulting discharge is thin and irritating, causing a transient vulvo-vaginitis; later, stimulation of the cervical glands produces an excess of mucus and the discharge becomes less in amount, mucopurulent and less irritating.

Treatment

Saline douches followed by the insertion of tablets or pessaries of arsenical compounds give immediate relief in cases of trichomonal vaginitis, and cure can be achieved in a proportion of cases if treatment is continued for some weeks after all symptoms have gone. A more thorough way of applying the vaginal arsenical is to

it in powder form as an insufflation; ver picrate powder can be used in the same way, but these are treatments which can only be given by trained personnel.

In *Oidium albicans* infection, after cleaning the vagina with a weak solution of sodium bicarbonate and drying thoroughly, jelly of phenylmercuric acetate applied to the vaginal walls quickly gives relief.

Modern treatment of gonorrhoea is by the use of penicillin or sulphonamides. The majority of venereologists give penicillin, 250,000 to 300,000 units in single or divided doses. Generally, the patient is rendered non-infective within twelve hours. Some clinicians still prefer to use sulphonamides, sulphathiazole being the preparation of choice.

In chronic cervicitis and erosions, especially the less severe cases, applications of old caustic preparations will sometimes be helpful. In childhood and after the menopause the protective acidity of the vagina is lacking, and members of both sexes are particularly susceptible to pyogenic infections.

Fluorine in Health and Disease

By Ian M. Macgregor, M.B., D.P.H.
(Ministry of Health)

Despite of much valuable information obtained during recent years, we cannot yet be certain whether fluorine compounds are necessary or harmful to human, animal or plant life. There is no doubt that very small amounts produce some beneficial effects, but larger doses are definitely harmful.

Fluorine is to be found in small quantities as a normal constituent of many body tissues, principally of the skeletal system. It is incorporated in a number of insecticidal sprays and powders, and, for its stimulating effect upon plant growth, in a number of fertilisers. It occurs in solution in drinking waters drawn from strata containing fluoride deposits, and is to be found as a by-product in a number of industrial processes or smokes.

Experimental animals fed with excessive quantities of fluorine compounds develop a distorted appearance and suffer symptoms resulting from a disturbance in the normal calcium and phosphorus metabolism. Fluorine exerts its influence on the bones and teeth, in which it is deposited in great quantity. The severity of the effects will depend to some extent on the kind of fluorine compound used and the species of experimental animal. Acute accidental

poisoning has been observed in many different species, producing symptoms of gastrointestinal irritation and toxæmia, death eventually supervening from respiratory paralysis. Degenerative changes are found in the liver and kidneys. Most commonly, however, poisoning manifests itself as a chronic disease of the skeletal system following the accidental consumption of fluorine compounds over a prolonged period.

Fluorides in Human Beings

The effects of fluorine compounds on human beings are much less severe than those which occur in animals, presumably because the relative quantities consumed are very much less. Persons living in the Meuse Valley—in the vicinity of factories liberating fluorine gases in an area where topographical and unusual meteorological conditions favoured the concentration of fumes—at one time developed acute pulmonary symptoms, however, resulting in sixty deaths and many other cases of illness. At the time this disaster was attributed to sulphur dioxide and associated products, but the circumstantial evidence points to fluorine as the incriminating element.

Children brought up in areas in which the water supply contains an excess of fluorine have, in many cases, been shown to develop a condition of the permanent teeth known as "mottled enamel," the enamel of the affected teeth developing a loss of translucency, and, eventually, a mottled chalky appearance. Teeth affected by minor degrees of mottling have been shown to suffer less from caries than those of children who have not been exposed to the same extent. It is for this reason that, in America, fluorine is being added to a number of drinking water supplies to produce a concentration of about one part per million. Careful observations are being made, and it is hoped that those who consume these treated waters will suffer a very much reduced incidence of dental decay.

Adults employed in some commercial undertakings which utilise compounds containing fluorine may, after many years of exposure, develop a condition of the skeletal system resembling, except in severity, that which occurs in grazing animals with a high fluorine intake. Although increased urinary excretion of fluorine may occur quite soon after exposure commences and radiological changes in bone may be noted many years later, the development of symptoms of skeletal fluorosis may be delayed as much as twenty to thirty years.

CORRESPONDENCE

Dodo or Phoenix?

SIR,—Reading your account (*C. & D.*, January 24, p. 119) of a recent meeting addressed by Mr. H. M. Hirst at Bournemouth, I note that I am quoted by Mr. Hirst as saying "the Joint Committee is as dead as the dodo." Mr. Hirst then proceeding to say "but it met last week." If, sir, Mr. Hirst desires to quote fellow members of Council in the course of his visits to branches, it would, I think, be well to quote them accurately. The statement I made at Edinburgh was on the following lines: "The Joint Committee as we knew it prior to July 1947 is as dead as the dodo, although on paper it remains in existence with the same personnel as before." That the Joint Committee met in January this year is an indisputable fact, but whereas, in the past, it met to determine policy and take action, it now meets merely to receive reports from constituent bodies, which I submit is a very different thing.

London, S.W.19. F. C. WILSON.

Drug Sale Memories

SIR,—I was most interested in the reminiscences (see *C. & D.*, January 3, p. 12) of my old friend Mr. W. C. Radermacher. I attended my first drug sales some forty-three years ago, when they were held fortnightly, and it was a sight to see the representatives of practically every leading wholesale druggist seated below the rostrum. Woe betide any stranger who, by mistake, stepped into a seat of one of the mighty! In those early days the rooms were crowded with buyers representing customers from all over the world. It was a common sight to see 1,000 bales of Tinnevelly senna (each bale separately sampled by the docks) offered and sold amid brisk competition, to American buyers, such as Henry Wheeler & Son, C. F. Gerhardt, Samuel Lambert & Co., and J. H. Z. Stallman. Another article favoured by buyers was gum asafetida; it was a nightmare to have to go to the London docks to sample and inspect this gum, and visitors to the dock were generally provided with sacking to cover their boots, as the stone floors were often covered with the softish glutinous substance, the obnoxious smell of which was not easy to get rid of. In the years between the two wars the drug sales ceased to serve their proper function, and were only a shadow of their former selves,

eight or more catalogues being disposed of in less than an hour, often with little sold. This state of affairs was mainly caused by the introduction of "forward," or c.i.f. business, which of course obviated the rapidly rising handling charges that consignment goods involved. Finally, may I pay tribute to that "Grand Old Man" of the drug trade whom the writer has to thank in no small measure for his primary knowledge of crude drugs: Mr. Radermacher.

London, E.C.3. J. D. SMITH
(FREUDENTHEIL, SMITH & CO.)

Preparing for "The Day"

SIR,—In less than twenty-three weeks will dawn the "appointed day" when the National Health Service is due to come into operation. Chemists have received numerous warnings that, in the new service, the must expect their dispensing business to be at least doubled, yet in few of the pharmacies that I have visited recently have seen any signs of preparation for the increased work. Indeed, the average "Joe Café" seems to have more in the way of modern technical equipment.

ON THE ROAD.

SIR,—I am shocked by the lack of plan and provision at so many pharmacies for dealing with the extra dispensing that is likely to follow the commencement of the National Health Service. As speakers at local branch meetings have repeatedly pointed out, the Service will give pharmacists something they have long been fighting for—the sole right to dispense medicines. They are also being given a opportunity to prove they can more than hold their own, in providing a pharmaceutical service, with the proposed health centres. For these reasons the casualness and "wait-and-see" attitude I have noticed throughout the country are an ill omen. Admittedly the difficulties with which even minor alterations to dispensaries are beset at present, and of obtaining extra staff, are considerable, but some chemists have overcome them, and have made their pharmacies look "Health Service conscious."

OBSERVER.

[BOTH the Pharmaceutical Society and the National Pharmaceutical Union will assist, if necessary (see *C. & D.*, January 21, p. 21), in securing priority for building licences for the purpose.—EDITOR].

OVERSEAS TRADE IN 1947

Statistics Compiled from the Trade and Navigation Accounts

	<i>Imports</i>	<i>Exports (U.K. Goods)</i>	<i>Total Exports</i>
47 £1,787,470,975	... £1,137,083,305	... £1,196,250,569	
46 £1,297,682,580	... £911,686,238	... £962,034,683	
38 £919,508,932	... £470,755,320	... £534,279,966	

DESCRIPTION	IMPORTS		EXPORTS	
	1947	1946	1947	1946
	£	£	£	£
Chemicals, drugs, dyes, etc. (group total)	26,739,977	17,611,706	67,412,904	66,055,909
Disinfectants, insecticides, weed killers, cattle dressing, etc.	—	—	3,420,139	3,647,061
Glycerin	23,008	2,606	78,746	474,638
Iodine	338,743	457,764	—	—
Menthol	409,638	*316,583	—	—
Cream of tartar	—	—	69,597	*121,555
Spirits (perfumed)	—	—	693,966	353,669
Drugs and medicines (miscellaneous manufacturers)	988,284	*552,661	14,545,418	12,815,996
Proprietary medicines	116,934	49,031	5,723,784	4,626,591
Quinine and quinine salts	352,121	114,888	282,663	228,727
Aspirin	—	—	450,555	*568,037
Penicillin	—	—	1,075,465	—
Ointments and liniments	—	—	517,078	*450,503
Drugs, raw or simply prepared	2,296,115	2,412,833	—	—
Cinchona bark	229,688	65,701	—	—
Ipecacuanha and other roots (total)	541,836	520,230	—	—
Cod-liver oil	58,492	*10,472	505,703	*551,344
Castor oil	462,350	—	—	—
Essential oils, natural	2,737,486	220	232,170	230,062
Toilet soap	—	2,565,259	503,957	574,007
Perfumery and toilet preparations, excluding spirits, essential oils and soap (total)	295,855	—	3,298,678	3,708,986
Dental preparations	—	68,942	553,129	*721,313
Cosmetics	—	—	1,230,720	*1,679,910
Toilet requisites (excluding brushes)	45,454	—	—	—
Shaving brushes	—	23,260	101,749	*168,695
Tooth and dental brushes	—	—	203,860	*249,052
Hair and other toilet brushes	—	—	344,808	*272,709
Mercuries and cine apparatus	293,598	—	538,845	242,526
Medical, surgical instruments, etc. (except optical)	—	135,590	—	—
Medical and surgical plasters	—	38,563	1,800,977	1,901,926
Other druggists' wares (unspecified)	—	—	551,293	*498,337
Bandages	—	—	415,543	*594,655
Cotton wool and gauze tissue	—	—	243,615	*439,874
Chemical glassware	—	—	377,787	*363,359
Chemical machinery	128,114	*12,768	675,423	*596,728
			999,045	*784,746

* For purposes of comparison the totals for 1946 and 1947 are given without final correction for customs duties with the exceptions of items marked with an asterisk.

RE-EXPORT totals were as follows: Chemicals, drugs, dyes, etc., 1947, £698,698 (1946, 92,336); manufactured drugs and medicines, £291,843 (£175,727); drugs, raw or simply prepared, £457,785 (£359,996); essential oils, £191,403 (£121,394); medical, surgical instruments, etc., £13,512 (£13,136); cod-liver oil, £40,627 (£245,978).

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade

28 Essex St., W.C.2, January 28

THE markets, generally, continue rather quiet with only a few price changes. Demand for PHARMACEUTICAL and FINE CHEMICALS has been fair and supplies of the majority of chemicals have been coming forward steadily, but there are important exceptions—supplies of SALICYLIC ACID and SODIUM SALICYLATE are low owing to the continued shortage of PHENOL. There has been some speculation as to the probable results of the devaluation of the franc on chemicals. It is not expected that there will be a substantial reduction of the prices for French chemicals. It is apparent that, had the devaluation not taken place, French manufacturers would have been compelled to make large increases in their price schedules because of the rising costs of production, the pace of which has accelerated in recent months.

A British maker of PILOCARPINE, owing to increasing costs of production, is to advance the rates for the ALKALOID and SALTS by 7s. 6d. per oz. POTASSIUM and SODIUM IODIDES are increased 5d. per lb., IODOFORM by 6d. per lb., and IODINE RESUBLIMED by 3d. per oz.

Crude Drugs

The markets for CRUDE DRUGS have seen a routine business with prices fairly stable. It is understood that there is little, if any, Indian ACONITE on the spot; parcels to come forward are offered at 340s. per cwt., landed. Cape ALOES on the spot is quoted at 155s. but there are sellers at 150s. per cwt.; the forward market is firmer. BUCHU, new-crop, for shipment, is offered at from 3s. 10½d. to 4s. 1½d. per lb., c.i.f., which is little inducement to importers to bring in supplies; it is understood that no business has been done at these prices. Business in CARDAMOMS, Aleppy seeds, has been done at 8s. per lb. and there are now few offers under 8s. 3d. CHAMOMILES continue firm and spot offers are from 12s. to 13s. 6d. per lb. Following the currency devaluation French GENTIAN root has weakened and spot quotations are down to 85s. per cwt. A considerable spot business has been done in Nicaraguan IPECACUANHA at 28s. 6d. Following an announcement that Brazil was prepared to export Matto Grosso root, which is favoured for emetine production, it is learned that import licences have been granted for the importation of several parcels into the United Kingdom. Matto Grosso went off the market several years ago when Brazilian policy was to reserve all supplies for domestic emetine manufacture. It is understood that small supplies of Anatolian LIQUORICE ROOT are still available on the spot and there is now a

possibility that further importations may be possible in view of a reported change in Turkish export policy.

Essential Oils

The market for ESSENTIAL OILS is without material changes. CITRONELLA and LEMONGRASS continue firm. LAVENDER and LAVANDIN were inclined to strengthen but prices are now rather obscure in view of the development in France, which is als likely to affect the markets for oils obtained from Réunion and other French colonies.

The advisory committee of the Essential Oils Control calls attention to the difficulties which arise when an approved user receives a contract for oils for which he has an allotment, and takes no action neither accepting nor refusing the oil tendered. In order that acceptance or rejection may be ascertained within a reasonable time users are requested to note that if a contract or advice of allocation is not accepted within a period of fourteen days after receipt the supplier is at liberty to advise the Control that the oil has not been accepted by the user. Upon receipt of such a notice the quantity of the oil will be deducted from the user's allotment and the oil will be re-allocated by the secretaries in the same manner as a notified rejection.

U.S. Drug and Chemical Report

New York, January 2

THE price of CINCHONA ALKALOIDS was reduced during the week; CINCHONIDIN ALKALOID now costs 95 cents per oz. (\$1.02 previously); small crystals, 65 cents (75 cents); and QUINIDINE crystals \$1.00 per oz. (\$1.03) all in 100-oz. fibre drum.

In New York it is thought that supplies of MENTHOL will be sufficient to meet a demands over the rest of the major consuming season; several shipments have been received from Japan and while most importers are quoting \$9.10 to \$9.25 per lb. it is reported that some may be willing to do business at \$9.00 in the case of a large order. A slightly larger inquiry for CRUDE DRUGS has been reported over the past week. Mexican SARSAPARILLA is expected to decline further: the current inside price is 45 cents per lb. Mexican VANILLA BEAN will probably be cheaper this year than the Bourbon varieties which are imported from Madagascar although they usually command a premium of \$1.00 to \$2.00 per lb. over the French type.

A sharp reduction in the price of LAVENDER featured an otherwise quiet ESSENTIAL OILS market last week. The material was offered at \$5.75 per lb. again \$7.00 previously. PATCHOULI OIL at \$10.00 per lb. was at its lowest level since the war.

Pharmaceutical Chemicals

AMMONIUM CHLORIDE, B.P.—Makers quote 1-cwt. lots at 9½d. per lb.

ASPIRIN.—Makers' prices per lb. for powder (containers in brackets), are unchanged: 1-cwt. lots (28-lb.), 3s. 5½d.; resellers' schedule rates for quantities of 28 lb. and under 1 cwt., 4s. 4½d. (1-lb.), 4s. 3½d. (2-lb.), 4s. 3d. (4-lb.), 4s. 2d. (7-lb.), 4s. 1½d. (14-lb.), 4s. 0½d. (28-lb.). Net one month.

BORIC ACID.—Current rates for ton lots of B.P. quality are: Granulated £60; crystal, £61; powder, £62. Commercial grades, £8 per ton less. Packed in 1 cwt. bags, delivered carriage paid in Great Britain, in 1-ton lots and upwards. Terms quoted do not apply to Northern Ireland.

BROMIDES.—Current resellers' rates per lb. for POTASSIUM, in quantities of 28 lb. to 1 cwt. (containers in brackets), are as follows: 3s. 5½d. (1-lb.), 3s. 4½d. (2-lb.), 3s. 4d. (4-lb.), 3s. 3d. (7-lb.), 3s. 2½d. (14-lb.), 3s. 1½d. (28-lb.). In bulk, makers quote 1 cwt. at 2s. 7d. per lb. and 5 cwt. at 2s. 6d. Powder is 2d. per lb. extra. SODIUM is 1½d. per lb. less than above rates; AMMONIUM is ½d. per lb. more than above rates. Terms are net; carriage paid on 1-cwt. lots in U.K.

BUTYL CHLORAL HYDRATE.—Current prices are from 17s. 6d. per lb. upwards.

CAFFEINE.—In short supply. Makers' prices per lb. are as follows: ALKALOID, anhydrous, from 41s. 6d. to 45s. 6d. and B.P., from 39s. 6d. to 43s. 6d., according to quantity; CITRATE, from 24s. 6d. to 28s. 6d.; SODIUM BENZOATE, from 24s. to 28s.; SODIUM SALICYLATE, from 24s. 9d. to 28s. 9d.; SODIUM IODIDE, from 29s. to 32s.

CALAMINE.—B.P.C. quality is quoted at 1s. 10d. per lb. in 1-cwt. lots.

CALCIFEROL.—Quotations are at from 11s. to 12s. per gm., according to quantity.

CALCIUM GLUCONATE.—Makers' quotations are at 3s. 4d. per lb. for 1-cwt. lots.

CARBACHOL, B.P.—Price of small quantities is in the region of 5s. per gm.

CARBROMAL.—Importers' quotations are at 45s. per lb. Continues in short supply.

CITRATES.—Makers' rates are as follows: POTASSIUM, 5-cwt. lots, 2s. 9½d. per lb., 1-cwt., 2s. 10½d.; schedule prices for quantities of 28 lb.-1 cwt., per lb., are as follows (containers in brackets): 3s. 8½d. (1-lb.); 3s. 7d. (4-lb.); 3s. 6d. (7-lb.); 3s. 5½d. (14-lb.); 3s. 4½d. (28-lb.). **FERRI ET AMMON CIT.**, B.P., 7d. per lb. above. SODIUM B.P., 3d. per lb. below; POWDER, d. per lb. extra.

EPHEDRINE.—Quotations for the ALKALOID are at from 12s. 6d. to 13s. per oz., as to quantity. HYDROCHLORIDE is quoted at from 8s. 6d. to 9s. per oz. Supplies limited.

HEXYL RESORCINOL.—Quotations are round 17s. 6d. per oz.

MAGNESIUM CARBONATE (B.P. LEVIS).—Current rates per lb. in the home trade are as follows (containers in brackets): 28 lb. to 1 cwt., 1s. 6d. (1-lb.); 1s. 5d. (2-lb.); 1s. 4½d. (4-lb.); 1s. 3½d. (7-lb.); 1s. 3d. (14-lb.); 1s. 2d. (28-lb.) per lb. Bulk quantities range from 94s. to 99s. per cwt., as to quantity, carriage paid.

MAGNESIUM CARBONATE (B.P. POND).—Current rates per lb. in the home trade are as follows (containers in brackets): 28 lb. to 1 cwt., 1s. 9d. (1-lb.); 1s. 8d. (2-lb.); 1s. 7½d. (4-lb.); 1s. 6½d. (7-lb.); 1s. 6d. (14-lb.); 1s. 5d. (28-lb.) per lb. Bulk quantities range from 121s. to 131s. per cwt., as to quantity, in 28-lb. packages, carriage paid.

MAGNESIUM OXIDE (B.P. LEVIS).—Prices for the home trade (per lb.) are as follows: Containers in brackets, 28 lb. to 1 cwt., 3s. 5d. (1-lb.); 3s. 4d. (2-lb.); 3s. 3½d. (4-lb.); 3s. 2½d. (7-lb.); 3s. 2d. (14-lb.); 3s. 1d. (28-lb.) per lb. Bulk quantities range from 2s. 4½d. to 2s. 6d. per lb. in 28-lb. packages, as to quantity, carriage paid.

MAGNESIUM TRISILICATE (B.P.).—Prices (per lb.) in the home trade are unchanged. Containers in brackets, 28 lb. to 1 cwt., 4s. 4d. (1-lb.); 4s. 3d. (2-lb.); 4s. 2½d. (4-lb.); 4s. 1½d. (7-lb.); 4s. 1d. (14-lb.); 4s. (28-lb.) per lb. Bulk quantities range from 3s. 2d. to 3s. 4d. per lb. in 28-lb. packages, as to quantity, carriage paid.

SODIUM ALGINATE.—Current rates per lb. are as follows: 7-lb. lots, 7s. 3d.; 28-lb., 7s.; 1-cwt., 6s. 6d.

TEREBENE.—Rates per lb. are as follows: Carboys, 3s. 9d.; 24 winchesters, 3s. 10½d.; 12, 4s. 1½d.; 6, 4s. 5d.

THYROXINE SODIUM.—Makers' prices per gm. are as follows: 1 gm., 50s.; 10 gm., 45s.; 100 gm., 40s.

THYMOL, B.P.—In short supply. Quotations are upwards from 18s. to 18s. 9d. per lb.

VALERIANATES.—Current quotations for quantities of 1 cwt. and over: IRON, SODIUM and ZINC, 42s. 6d. per lb.; AMYL ISOVALERATE, 37s. 6d.; ETHYL ISOVALERATE, 43s. 9d.; METHYL ISOVALERATE, 44s. 3d. MENTHYL is quoted at 95s. 6d. per lb.

VANILLIN.—Current rates are: 5 cwt., 22s. per lb.; 1 cwt., 22s. 3d.; 56 lb., 22s. 6d.; smaller quantities, 22s. 9d. per lb. Supplies from maker are on quota.

ZINC SALTS.—Prices per lb. are as follows: ACETATE, B.P.C., 3s. 9d. to 4s. 1d.; CARBONATE, B.P.C., 1s. 11d. to 2s. 5d.; CHLORIDE, B.P. (white), fused, 3s. to 3s. 4d., stick, 3s. 10d. to 4s. 2d.; IODIDE, B.P.C., 18s. 9d.; OXIDE, B.P., 11d. to 1s. 2½d., prepared from carbonate, 5s. 6d. to 6s.; PERMANGANATE, B.P.C., 9s.; SULPHATE, B.P., 44s. 6d. per cwt.; powdered, 51s. 6d. to 65s. 6d. per cwt.; excised, 10d. to 1s. 1½d. per lb. The above price ranges are according to quantity.

Crude Drugs

AGAR.—Kobé No. 1 type strip, f.a.q., is quoted at 19s. per lb., spot.

ALOES.—Cape is offered at 155s. to 165s. spot; shipment offers are at 140s. to 142s., c.i.f. Curaçao in boxes is available from 235s. to 245s. spot; forward, 215s. to 220s., c.i.f.; Socotrine on spot is quoted at 156s. to 190s. per cwt.

ANISE (STAR).—Spot quoted from 120s. to 130s. per cwt.; shipment, 110s., c.i.f.

ANNATTO SEED.—A parcel of Jamaica is quoted at 11d. per lb., c.i.f.

ANTIMONY.—Current rates are as follows: 99.6 per cent., regulus, £190 per ton, delivered; 99 per cent., £180; 70 per cent. crude, £150.

ARECA NUTS.—Ceylon on the spot is offered at 67s. 6d. per cwt.

ARNICA FLOWERS.—3s. per lb., spot.

ASAFETIDA.—Persian block is quoted at £28 per cwt., spot.

BALSAMS.—*Canada* is offered at 17s. 6d. to 18s. per lb., spot. Pará *Copaiba*, spot, 8s. per lb. for soluble, which is difficult to find, and 7s. 3d. for insoluble. *Peru*, San Salvador, is offered at 6s. 3d. per lb., duty paid. *Tolu* on spot, 19s. to 19s. 6d. per lb., quoted.

BAY LEAVES.—Leaves without stems 95s. to 105s. per cwt., duty paid, quoted.

BELLADONNA.—Root, B.P., to come forward, is quoted at 5s. 9d. per lb. Herb, nominal at 6s. per lb.

BENZOIN.—Firm on spot. Offers are from £15 to £18 per cwt., as to quality.

BISMUTH.—Current price of high-grade metal is 11s. per lb. for quantities of 5 cwt.

BUCHU.—B.P. leaves, old-crop, quoted from 4s. 2d. to 4s. 3d. per lb., spot; ovals are offered at 4s.

CALUMBA.—Natural unwashed root is offered at 80s. per cwt., spot.

CAMPHOR.—Chinese tablets (½-oz.) are quoted at 11s. 3d. to 11s. 6d. per lb., spot; refined powder (B.P.), 10s. 3d. to 10s. 6d. Formosa (B.B.), 9s. 6d. to 10s.; 2½-lb. slabs, afloat, quoted at 10s. 6d. per lb., landed, duty paid. Chinese crude 93-95 per cent., 7s. per lb.

CANTHARIDES.—Chinese, spot, offered at 10s., duty paid; 6s. 9d. per lb., c.i.f.

CAPSICUMS.—East African, spot, steady at 120s. to 140s. per cwt.

CARDAMOMS.—Mangalore: Half-bleached A's, 8s. 6d. per lb., spot; B's, 8s., seeds, 6s. 9d. Aleppy seeds, 8s. 3d. per lb. quoted for No. 1; Aleppy greens, 6s. 3d., with extra bold at 7s. per lb.

CASCARA SAGRADA.—1947 peel is steady at 265s. to 275s. per cwt., according to holder; 1946 is at 270s. to 275s.

CASCARILLA.—Quills are offering at 1s. 7d. to 1s. 8d. per lb., spot; siftings are rather scarce at 1s. 5d. to 1s. 6d.

CASSIA PODS (*C. fistula*).—East Indian quoted at 70s. per cwt., ex wharf.

CHAMOMILES.—Belgian on spot is 12s. to 13s. 6d. per lb., duty paid; Hungarian spot, quoted at 3s. per lb., duty paid.

CHAULMOOGRA.—*Hydnocarpus*, in tins in cases, is quoted at 1s. 10d. per lb., spot.

CHILLIES.—Mombasa is quoted at 125s. per cwt., spot; Sierra Leone, 140s., nominal; Nigerian, 100s.; Japanese-type, 190s.

CINNAMON.—Quillings are offered ex store at 1s. 6d., featherings at 1s. 3d., and chips at 9d. per lb.

ELEMI.—A parcel of Manila No. 1 is offered at 2s. 3d. to 2s. 6d. per lb., spot.

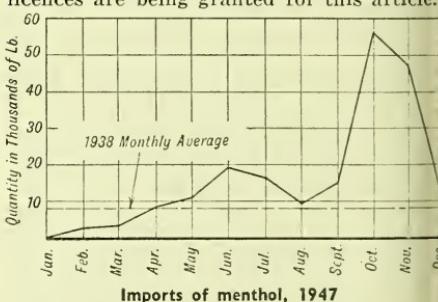
ERGOT.—Spot is offered at 4s. 3d. to 4s. 4½d. per lb.; for shipment, 3s. 10d. c.i.f., for Portuguese.

GUM ACACIA.—Kordofan cleaned sorts 70s. per cwt., spot London; shipment, 61s. c.i.f. Bleached No. 1, steady at 140s., ex store. Talha cleaned 39s. per cwt., ex warehouse; shipment, 35s. c.i.f.

IPECACUANHA.—Nicaraguan is firm at 28s. 6d. to 30s. per lb., spot; shipment, 26s. c.i.f.; Colombian root, 28s., spot, and 29s. per lb., c.i.f.

MALE FERN.—Jugo-Slav is offering at £95 per ton, c.i.f.

MENTHOL.—Steady. Brazil is quoted at 48s. 6d. to 50s., duty paid; no import licences are being granted for this article.



MYRRH.—Steady. Aden sorts is quoted at £14 to £15 10s. per cwt.; siftings, £8 to £10 per cwt., spot.

NUX VOMICA.—Madras, on spot, is steady at 40s. to 42s. 6d. per cwt.; Mangalore 40s.; Cochin, 42s. 6d. to 45s., spot, as to seller. The forward market, it is reported is strengthening.

OLIBANUM.—Fair to good drop is quoted from 200s. to 220s. per cwt.; pea size 220s.; good garblings, 180s.; seeds, 175s. siftings, 105s.

ORANGE PEEL.—Spanish quarters, 1s. 3d. to 1s. 6d. per lb., spot; sweet ribbon is quoted at 1s. 9d.; bitter ribbon, 1s. 3d. in Liverpool.

ORRIS.—Florentine, spot, 185s. to 195s. per cwt., according to quality. Verona for shipment, 105s., c.i.f.

QUINCE SEEDS.—Cape, on the spot, is noted at 5s. 9d. to 6s. per lb.

RHATANY.—Spot is quoted at 9d. per lb. **RHUBARB.**—Chinese rough-round on the spot is quoted from 5s. to 6s. 6d. per lb., according to fracture; a No. 3 root is available at 3s. 6d.; French rhabontica, 1s. 9d.

SARSAPARILLA.—Jamaican native red on the spot, at 2s. 4d. to 2s. 6d. per lb.; 2s. 3d. 6f. A fair spot business has been done.

SEEDS.—**ANISE.**—No demand for this article. Cyprus, 1s. 9d. per lb., and Turkey, 1s. 8½d. per lb., duty paid, spot London or Liverpool. **CARAWAY.**—Market unchanged. Sellers of Dutch at 11½d. per lb., duty paid, spot London. **CELERI.**—Market quiet. Indian offered at 1s. 3d. per lb., spot Liverpool. **CORIANDER.**—Owing to lack of demand the market is easier. Argentine is quoted at 50s. per cwt., duty paid, spot London or Liverpool; no offers have yet been received from Morocco for shipment, nominal value on the spot is 55s. per cwt., duty paid. **CUMIN.**—Sellers of Indian at 2s. 6d. to 215s. per cwt., spot Liverpool.

Hull; Cyprus is offered at 220s. per lb., spot London. **DILL.**—Indian quoted 47s. 6d. per cwt., spot London and 45s. per cwt., in Liverpool. **FENNEL.**—Indian worth 72s. 6d. per cwt., spot London, and 71s. per cwt., in Liverpool. **FENNEK.**—More interest shown in Indian at 1s. 6d. per cwt., spot London, and 45s. per cwt., ex store Liverpool.

SENEGA.—In more demand; spot is ready at from 11s. 9d. to 12s. per lb., shipment, 11s. 9d., c.i.f.

SENNA.—Tinnevelly leaves on the spot, offered as follows: No. 1, 10d. to 1s. per lb.; No. 2, 8d. to 9d.; No. 3, 7d.; No. 4, 6d. to 6d. Tinnevelly pods, handpicked, d. to 1s. 4d.; manufacturing, 5½d. to 6d. Alexandrian pods, handpicked, spot, from 9d. to 5s. 9d., according to quality: medium, 2s. 9d.; manufacturing, 1s. 9d. to 2s. per lb. Alexandrian leaves, 1s. 2d. per quoted for f.a.q.

HELLAC.—Continues firm. Spot quotations, ex warehouse, are as follows: O.T.N., pure, 335s.; Standard No. 1, 3s.; fine orange, 350s. to 400s. per cwt.

SCUILL.—Italian white is quoted at 65s. per cwt., spot; Italian red, 84s., spot.

STRAMONIUM.—Hungarian, on the spot, offered at 115s. per cwt.

STYRAX.—Nominal, 5s. 6d. per lb., spot.

TAMARINDS.—Barbados is quoted at 8s. 6d. per cwt., duty paid.

TONKA BEANS.—Frosted Pará is quoted 5s. per lb., spot.

TRAGACANTH.—Selected white ribbon on the spot is offered at £115 per cwt.; other size grades, from £60 to £100; pale leaf, 5s. to £52; amber, £25 to £35; red, £13 to 8s; hoggy, £7 to £11.

TURMERIC.—Firm. Madras finger quoted 117s. 6d. per cwt., spot Liverpool.

Essential Oils

ANISE.—Chinese star in drums is offered at 6s. 4½d. to 6s. 7½d. per lb., and in tins at 6s. 6d., with up to 7s. 6d. for smalls.

BAY.—Prices of West Indian are unchanged at 7s. to 8s. 6d. per lb., spot.

CADE.—Steady; quoted from 4s. to 5s. 6d. per lb., according to holder and quantity.

DILL.—English-distilled oil is quoted at 62s. 6d. per lb.

GERANIUM.—Bourbon is firm on spot at from 70s. to 75s. per lb., according to quantity and grade. Supplies are low.

LAVANDIN.—Spot supplies are priced at from 11s. 6d. to 14s. per lb.

NUTMEG.—English-distilled oil is offered at from 39s. to 40s. per lb.

ORIGANUM.—Quotations are from 18s. 6d. to 20s. per lb., spot, according to holder.

PALMAROSA.—Supplies are difficult to find and are worth 36s. per lb.

PINE NEEDLE.—Spot is steady at 22s. per lb. for first-grade oil.

SASSAFRAS.—Stocks are very small. Prices range from 6s. 6d. to 8s. per lb.

BRAZILIAN PERFUMERY INDUSTRY

The perfumery industry of Brazil, although expanding, especially since 1939, is still far from offering serious competition to producers in other markets. Although relying almost entirely on imported essences, the industry owes its development to protective tariffs and import restrictions on finished products. Production is absorbed entirely by the home market. Most of the producing firms are foreign-controlled. No production figures are available, but the following figures of imports of essences during the past four years may indicate the scope of development of the industry:

YEAR	TONS	VALUE (in 1,000 of Crs.)
1944	unknown	24,562
1945	39	21,821
1946	75	42,019
1947	(Jan.-Aug.) 51	28,814

The industry benefits by an abundance of cheap alcohol and a relatively low wage scale for workers, the monthly wage for an experienced worker being 770 cruzeiros for eight hours a day and a five-day week. Export business is done in lemon and orange oils and small quantities of bois de rose oil have also been sold abroad. Vertivert oil is produced on a small scale, and some has been exported, chiefly to the United States and Switzerland. The oil sells at about \$50 (U.S.) per kilo, f.o.b.

TRADE

- (From "The Trade Marks Journal," January 7)
- "BUCIDAL"; for pharmaceutical preparations (5). By British Schering, Ltd., 167 Great Portland Street, London, W.1. 654,277.
 - "FALMONOX," "ZOARIN," "LADOGAL"; for all goods (5). By Sterling Products International, Inc., 120 Astor Street, Newark, New Jersey, U.S.A. 654,368-70.
 - "FALAINE"; for moth destroying and repelling preparations (5). By Catomance, Ltd., 94 Bridge Road East, Welwyn Garden City, Herts. 654,623.
 - "KULDA"; for pharmaceutical preparations and substances, and corn plasters (5). By Cullen & Davison, Ltd., 7 Howard Street, Belfast, Northern Ireland. 654,691.
 - "LION"; for contrivances for prophylactic purposes, and surgical and medical articles, all made from rubber or synthetic rubber (10). By London Rubber Co., North Circular Road, London, E.4. B645,840.
 - "MEDEQ"; for surgical instruments (10). By Medical Equipment Co., Ltd., 145 Coleherne Court, London, S.W.5. 653,050.
 - "GATAK," "PRINTAX," "LUNO"; for articles made of rubber for prophylactic purposes (10). By Colin Charles Markham, 31 Woodstock Road, London, W.4. 654,511-12 and 654,514.
 - "APCOL"; for small domestic utensils and containers (not of precious metal or coated therewith), combs and brushes included in this Class (21). By Artistic Plastics Co., Ltd., 25a Albert Street, Birmingham, 4. 645,936 (Associated).
 - "SPONTEX"; for artificial sponges made of cellulose derivatives for sale in the United Kingdom of Great Britain and Northern Ireland and for export to and sale in the Dominions of India and Pakistan and the Dominions, Colonies, Dependencies, Protectorates and Mandated territories comprised in the British Empire as at present constituted, but not for export to and sale in Palestine (21). By Sponce, Ltd., Woldham Road, Bromley, Kent. 652,680 (Associated).

APPLICATIONS AMENDED AFTER ADVERTISEMENT
Specification No. B640,570 by Max Aymes should be altered so as to read: "Perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other Classes), sachets for use in waving the hair, and essential oils, none being goods consisting of or containing soap."

Specification No. 647,785 by Wortley Essence Co., Ltd., should be altered so as to read: "Preparations and substances for laundry use; cleaning and scouring preparations, and perfumes, but not including detergents for use in bottle washing."

Specification No. 648,630 by Frederick James Verdi Harverson should be altered so as to read: "Pharmaceutical preparations and substances."

APPLICATIONS AMENDED AFTER OPPOSITION

Specification No. 626,889 by Bayer Products, Ltd., should be altered so as to read: "Sulphadiazine pharmaceutical preparations."

MARKS

- (From "The Trade Marks Journal," January 7)
- "ROMOSIN"; for emulsifying agents being compounds of esters of glycerin for use in manufactures (1). By M. R. Chemical Products, Ltd., Moorgate, London, E.C. 653,495 (Associated).
 - "LA MOYA"; for toilet preparations (not medicated) and cosmetics (3). By Elizabeth Pilkinson, 34 St. Vincent Avenue, Blackpool, Lancs. B648,376.
 - "TEXACOL"; for detergents (3). By H. W. Kay Co., 1 New Street, Manchester, 10. 652,339.
 - "RINSO" and label design; for detergents, soaps, perfumes, non-medicated toilet preparations, dentifrices, but not including toilet preparations for the hair or any goods of the same description (3). By R. S. Hudson, Ltd., Unilever House, London, E.C.4. 652,591 (Associated).
 - "REGENCY"; for perfumes, toilet preparations (medicated), cosmetics, dentifrices, depilatory toilet articles (not included in other Classes), sachets for hair waving, soaps and essential oils (3). By J. Grossmith & Son, Ltd., 45 Piccadilly, London, W.1. 653,573.
 - "TETRACAP"; for medicinal products in capsule form for human and veterinary use (5). By the Wellcome Foundation, Ltd., 183 East Road, London, N.W.1. 650,689.
 - "SOLMAETHIN"; for pharmaceutical preparations and substances (5). By Bayer Products, Ltd., Africa House, Kingsway, London, W.C.1. 651,277.
 - "WOODLAND MILK FOOD" on label device including mother and child; for dried milk specially prepared for infants' food (5). By Woodland Milk Foods, Ltd., Barnacre, Garstang, nr. Preston, Lancs. B651,305.
 - "INDODEX"; for deodorisers (5). By Deodoriser Co. of England, Ltd., K19 Exchange Building, Liverpool, 3. 651,744.
 - "STERIDON"; for pharmaceutical preparations and substances (5). By H. R. Napp, Ltd., Clement's Inn, London, W.C.2. 652,645 (Associated).
 - "ZINCAMOL"; for zinc ointment (5). By Cedars Stanley Eyre, 341 Clifton Drive, St. Annes-on-Sea, Lancs. 652,776.
 - "AQUA SELWA"; for pharmaceutical preparations and substances for human use (5). By Kami Laboratories, Ltd., Plantation House, 31 Fenchurch Street, London, E.C.3. 653,133.
 - "FINIRAT"; for preparations for the extermination of mice and rats (5). By Bogena, Westvest, Schiedam, Holland. B653,479.
 - "ERPA"; for all goods (5). By Hirst, Brooke Hirst, Ltd., Sheepscar Works, Leeds. 653,710.
 - "PERGENE"; for deodorants (5). By Neil Gollie Leland, 23 Donne Place, London, S.W.1. 654,150.
 - "FURN ISSIA" and fern device; for disinfectants and preparations for killing weeds and destroying vermin (5). By Thomas Furniss (Sheffield) Ltd., 73 Norfolk Street, Sheffield, 1. 654,260 (Associated).
 - "CREMISSA"; for pharmaceutical preparations and substances (5). By Cabas Chemical Co. Ltd., Church Hall, Little Clacton, Essex. 654,500 (Associated).

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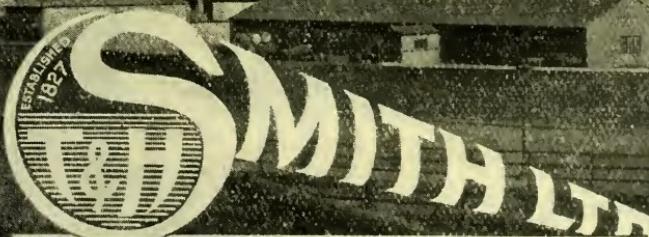
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G.P.7a

Discovery . . .

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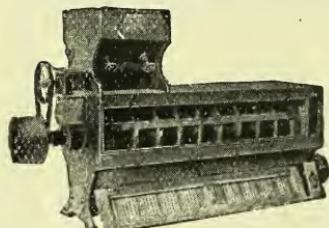
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CONTRACEPTIVES (Special Formulas), TABLETS and JELLIES

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P.O. Box 54, BARNET

Aldersgate House, Barnet, Herts.

DISTRIBUTORS TO THE TRADE FOR THESE
TWO POPULAR FRUIT BOTTLING LINES

POROSAN SKIN in 2/- and 5/- rolls

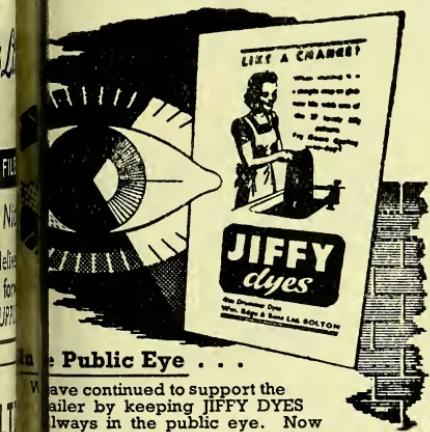
sufficient to seal 6 and 18 jars respectively.
Thicker and better than ever.

POROSAN CAPS and RINGS

in 3 packs retailing 3/- doz. 1 lb. 2 lb. and
50/50 Pack ($\frac{1}{2}$ doz. each size).

Order **EARLY** for 1948 Season

Made by **POROSAN LTD.** 65-66 CHANCERY LANE LONDON, W.C.2



... in the Public Eye . . .

We have continued to support the
dyeing industry by keeping JIFFY DYES
always in the public eye. Now
that supplies are growing better
each day the value of firmly
upholding "goodwill" must
inevitably show itself. It pays
to stock "goodwill" lines.

JIFFY DYES
Also **DRUMMER DYES**

by Wm. EDGE & SONS LTD. - BOLTON



**ROBERTS'
PATENT
"LEO"
VACUUM
FILLER**

Fills all sizes of
bottles with
Liquids from
drachm to quart
—long, short or
sprinkler neck.
Clean & Rapid
No Over Filling
Broken Bottles
Rejected
Easy to clean
Self Rinsing

Write for
Particulars

Roberts' Patent Filling Machine Co. Ltd.
BOLTON, LANCASHIRE

Makers of every description of Bottle Fillings and Shallow Jar
and Tin Filling Machine for the Chemists' use

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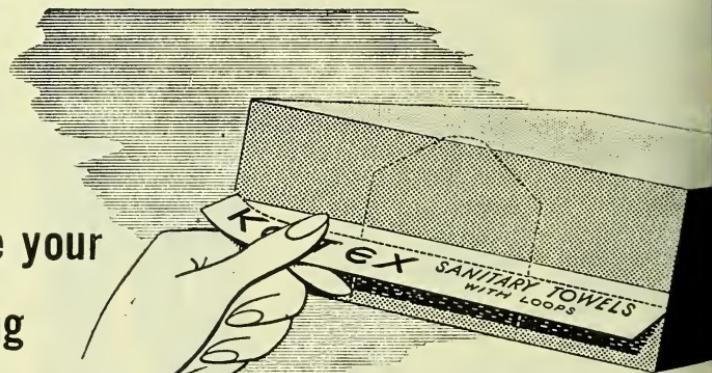


SURGICAL DRESSINGS

by
CARUS
OF DARWEN

HODDLESDEN MILL • ATLANTIC MILL • HAMPDEN MILL • SPOTLAND BRIDGE MILL

To save your
wrapping
problems . . .



.... tear off perforated strip

For your convenience, Kotex has decided to revert temporarily to the plain pack with "tear-off" strip. Simply remove the strip and the plain pack is ready. Limited quantities are available for the wholesale trade.

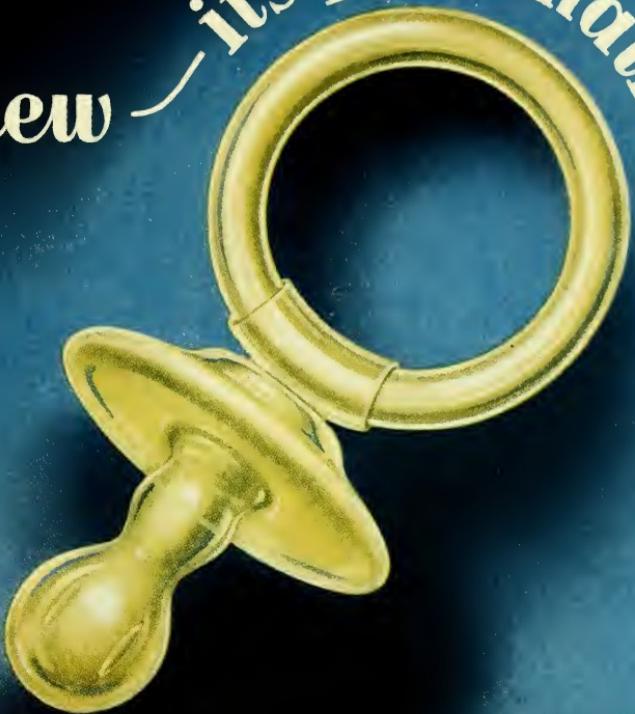
KOTEX SANITARY TOWELS
WITH LOOPS

Now 1/8½d. per Box (C.P.R.C. Approved)

Cellucotton Products Ltd., 33/34 Aylmer Parade,
London, N.2.

it's new

it's pneumatic!



BRITISH AND FOREIGN
PATENTS PENDING

MARIGOLD
REGISTERED
Cushion
COMFORTER

for Cot Comfort

Made entirely of pure latex; soft,
resilient and easily sterilized.

In well-informed circles



Many topics may be touched upon—and various viewpoints expressed. But when the conversation turns to the all-important subject of Feminine Hygiene opinion is unanimous. In Rendells Products women have the perfect answer to their particular personal problems. It is an opinion echoed by women the world over.

Rendells
PRODUCTS
FOR FEMININE HYGIENE

RENDELLS PESSARI
OVASTOL · SANTRON
MENSINOLE

Important Price Announcement from Gillette

This is to confirm that current retail prices of Razor Sets, including purchase tax, for Great Britain and Northern Ireland, are as follows:

Gillette

No. 25 Set	3/6d.	No. 48 Set	13/6d.
„ 31 „	4/10d.	„ 40 „	33/-
„ 27 „	5/6d.	„ 15 „	32/-
„ 44 „	6/-	„ 21 „	27/6d.
„ 77 „	7/-		

Valet

No. 99 Set	8/9d.	No. 1 Set	59/9d.
„ 101 „	12/-	„ 50 „	56/6d.

(The above prices do not apply for the Channel Islands)

Gillette Industries Limited.

Gillette Corner, Great West Road, Isleworth, Middlesex

ZEAL

Clinicals

The Choice
of Experts

BRITISH
MADE

NO HIGHER
IN PRICE THAN
NONDESCRIPT
MAKES

Also Household, Bath-
and Works Thermometers,
the best of their kind



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LOMBARD RD., MORDEN RD.,
LONDON, SW.19

Phone : Liberty 2283-45



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VELVEX

*The toilet tissue that
housewives ask for
by name*

• IN HANDY PACKETS OR ROLL

VELVET TOILET TISSU
CREPE PAPER CO. LTD.
PRODUCT VELVET CREPE PAPER CO. LTD.

THE RELIABLE Edosan

ALL ELASTIC SANITARY BELTS

EDOSAN LTD. 189. CARLTON VALE. LONDON NW6.



(PERCENTA LTD.)
Percenta House, 130/2 Tooley Street, London, S.E.1.

Containers of Metal
Glass, Aluminium
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Tel: Hop 0516 (6 lines)



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SEND YOUR
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PROMPT SERVICE

Your Enquiries Invited.

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STRATFORD-UPON-AVON

ANGLIAN

SURGICAL
DRESSINGS



SANITARY
TOWELS

NORVEX

SPECIAL OFFER

FIRST AID CASE IN HEAVY BLACK METAL
FOR UNDER 50 PERSONS 16/6 ea.

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PHONE
2095

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ANONA WINN

Famous Stage and
Radio Star.



Miss Anona Winn will recommend
AURORAL Dyes in millions of
advertisements in periodicals and
magazines during 1948.

5% for
in 7 days

AURORAL Cold Water Dyes 48/- gross	}
WINNER Home Stocking Dyes 24/- gross	

WITAKERS OF KENDAL



Electric and
Non-Electric
Sterilizers.

Hypodermic
and Serum
Syringes.

Spirit Proof
Plastic Syringe
Cases.

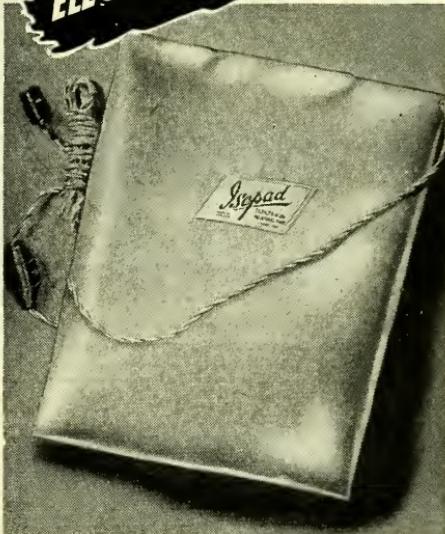
Obtainable through all
Manufacturers and Retailers
Ask for Descriptive
Leaflets

'Surqualet'
the most modern
Electric Sterilizer

MANUFACTURED BY

Medical Equipment Supplies Ltd
1 STFIELDS ROAD, LONDON, W.3.

THE Isopad
ELECTRIC HEATING PAD



UNIQUE FEATURES of THE ISOPAD TRIUMPH

Fibre glass safety construction.

The thermostatically controlled heating element
is completely insulated and nested in thick folds
of soft fibre glass wadding.

Moisture proof cover. The Pad is soft and flexible
like a pneumatic cushion giving constant warmth
and comfort.

12 months guarantee.

Wholesale Distributors to Chemists :—

MAW'S OF BARNET

Isopad yields good custom, profit and prestige

Write for full particulars and leaflets :—

ISOPAD LIMITED
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Specialist makers of pliable heaters for home and industry

CONSISTENT

PURITY

STRENGTH

QUALITY

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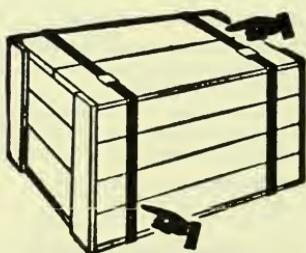
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BANDING SYSTEM

It's speedy! It's simple!!

Above all—It's Secure!!!



THESE BANDS WILL ENSURE YOUR
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For Wholesale Manufacturing
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MEDICAL and DISPENSING
LABELS, TOILET, COSMETIC and
PERFUME, largest range of STOCK
LABELS (attractive two-colour 50-
60 wordings), SHAMPOO POWDER
ENVELOPES and INNERS, also
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*Send for our
extensive sample
range*

**CARILLON
PRESS LTD**

Artists in the Production of Fine Labels
BOURNEMOUTH

MICE

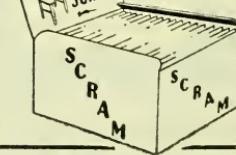
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SCRAM

THE CLEAN METHOD

Absolutely harmless to children and

Nationally advertised.
more than a million pa-
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3 doz. packets in
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Order from your
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SCRAM PROD
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Enquiries invited
from Wholesalers,
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London, Midlands
Southern and Eastern
England:

Brobat Disinfectant Germicide is the latest addition to the BROBAT range. Stock up NOW with the powerful (4 times stronger than carbolic) non-poisonous non-staining Germicide and take advantage of the National Press Advertising Campaign.

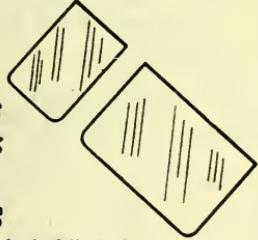
Limited supplies of BROAMAT, the coupon free liquid woolly washer, are now available.

BROBAT DISINFECTANT GERMICIDE

Brobat Distributors, Ltd., 241 Main Rd., Sidcup; Tel.: Footscray 1328

ROD DRESSING

*The Modern Method
of Window Dressing*



This easy method of displaying merchandise is becoming increasingly popular with chemists. Independent and quicklyovable brackets slide up and down vertically to any position desired. With glass shelves fitted in position, they are ready for dressing. Whole display can be easily withdrawn and rearranged for a new presentation.

Complete details and prices on application to:

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(dress) Aldersgate Works, Felsham Road,
S.W.15 Telephone : PUTney 6232

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ACCURACY**

THERMOMETERS
Clinical: Household: Industrial: etc

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S. BRANNAN & SONS LTD
London and Cumberland

EXPORT BRANCH
LYALL WILLIS & CO. LTD
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A
COMBINATION
of qualities



The claims of 'Dettol' do not rest on any single quality desirable in an anti-septic, but rather upon the combination of several essential properties. It can be used at fully effective strengths with safety; that is, without risk of poisoning, discomfort or damage to tissue. It retains a high bactericidal potency in the presence of blood, it is stable, and agreeable in use.

'DETTOL'
THE MODERN ANTISEPTIC

RECKITT & COLMAN LTD., HULL AND LONDON
(PHARMACEUTICAL DEPT., HULL)

We offer

— FOR EXPORT

PAPAVERINE HYDROCHLORIDE
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OESTRONE

Box No. 2/230

**2^D DYANESE
FADELESS DYES**

STOCKING (except Black). 16/- gr.
CURTAIN & COLD WATER, 24/- gr.
(including Black Stocking)

Please order from our Sole Agent

Gt. Britain—W. B. Cartwright, Ltd., Rawdon,
N. Ireland—T. McMullan & Co. Ltd., 42, Victoria Street,
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Continuous and Steadily Advertised
FOR DESTROYING RATS AND
DANYSZ VIRUS

Retail Price (Protected) Net Whole
Virus for Rats and Mice, single tube, 2/- 15/-
3 tubes, 5/-
Virus for Mice only single tubes, 1/6 9/-
3 tubes, 3/-
Date-expired tubes returned to us postage
be exchanged free of charge.

Danysz Virus in Liquid Form

Retail Price Whole
Bottles 6/- each 4/6
.. 4/6 3/9

**HALLER'S EXTRACT OF SQUILL &
DANZO RAT KILLER**

Discount off Retail Prices 25 p.c. Monthly
or 33½ p.c. Cash with Order.

Retail	Monthly A/c	Cash w.
1 gall. tins	10/-	7/6
" "	18/-	13/6
5 "	80/-	60/-

DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches,
Crickets, etc.

Retail Prices (Protected) Wholesales
In cartons 9d. each 6/-
" 1/6 13/6
" 3/- 27/-

Danzo Beetle Powder will not deteriorate by
CARRIAGE PAID ON ALL ORDER.

To be obtained from
HALLER LABORATORIES, LTD.
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Telegrams: "Virudana, Bedist, London." Telephone



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ASTHMA
The
DEEDON ALL-PLASTICS
INHALER
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London Office
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ABERDEEN • SCOTLAND

GRENODINE PINE DISINFECTANT • GRENO D.D.T. POWDER AND LIQUID • GRENO D.D.T. DOG WASH • GRENO D.D.T. FLYPAPERS • GRENO-SCEN PERFUMED DISINFECTANT • GRENO D.D.T. HAIR EMULSION • GRENOL MEDICATED HAIR OIL • D.D.T. AND GRENOSCEN SPRAY OUTFITS • BULK INSECTICIDES AND DISINFECTANTS • GRENO PINE NEEDLE EXTRACT

GRENO

D.D.T. INSECTICIDES.
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 DISINFECTANTS ETC.

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CLYDE UTILITIES LTD

73 DUNLOP STREET, GLASGOW, C.I.
 SOLE DISTRIBUTORS FOR ENGLAND AND WALES
 SALE TILNEY (MARKETING) LTD.
 3 LLOYDS AVENUE, LONDON, E.C.3

33½% PROFIT FOR YOU

*Every time you sell the
3/10 size Carters you gain 1/-*

IT'S EASY to sell the large-size Carters because the customer saves 10d. by buying it, and gets 5 more pills as well. Investigations show that one customer in every three will buy the large size when it is offered them. Supplies are readily available. Send your order now for large-size Carters Little Liver Pills and stop losing easy profits!

ORDER YOUR CARTERS LITTLE LIVER PILLS *Now*
from THOMAS MARNS LTD., 2 Caxton Street, S.W.1



Your holiday-making customers were delighted with Brontan Sun-Tan Cream. Now, they'll be ready to try other Brontan products if you show them and talk about them.

*This Winter...
do well again
with ANN ROSE*

—also in the Brontan family—
Ann Rose Beautifying Complexion Powder and Ann Rose Vanishing Cream. Both are fine, chiffon-soft and delicately perfumed. Attractively boxed, the powder sells in four popular shades, retailing at 3/- and 4/4½ (incl. P.T.). The Vanishing Cream, in neat, handy jars, is 2/3½ (incl. P.T.).

BRONTAN Ltd., 1 Broad St. Buildings,
Liverpool St., E.C.2. Phone: BISHOPSGATE 6383

Fortifies Food.

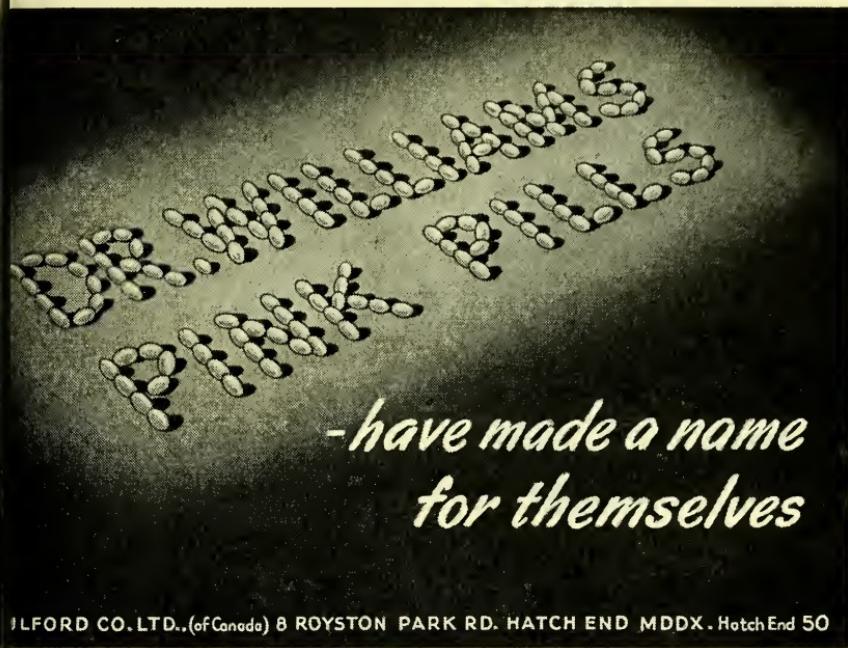
● A little VIRDOX sprinkled over food in beverages adds valuable yeast vitamins to the ordinary diet. Recommended for correct malnutrition, digestive troubles, lassitude, anaemia and "nerviness." Retailing at 3/6 per 8 oz. tin, VIRDOX is a profitable line for all Chemists.

*Write today for full details
of generous Trade Terms.*

Home and Overseas Agents required.

VIRDOX
nutrition

VIRDOX, 75, KINGSWAY, LONDON,



EDME LTD., ILFORD CO. LTD. (of Canada) 8 ROYSTON PARK RD. HATCH END MDDX. Hatch End 50

*The Brand
that rings
the bell!*



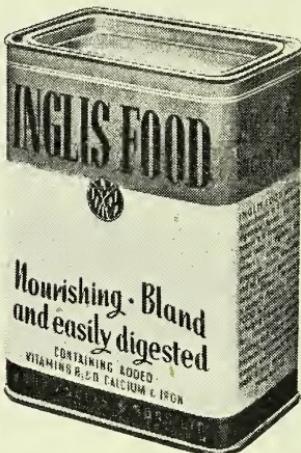
Keep your cash register busy this winter by showing the attractive "Autumn Sun" display card, linking up with "Autumn Sun" national advertising. These, plus "Edme" quality and "that butterscotch flavour," ring a bell with the public.

NALLY ADVERTISED
sing in national Press
pear throughout the
FREE—handsome Jar-
display showcard in full
colour creates sales.

EDME
Autumn Sun
MALT AND OIL
Manufactured from finest ingredient
obtainable. Full particulars from:

EDME LIMITED · IMPERIAL HOUSE, REGENT ST, LONDON W.I.
TELEPHONE REGENT 5563-4

Announcing



NEW FOOD CONTROLS ITS OWN DIGESTION

FEEDING for those with impaired digestion is always a difficult problem. Adequate nourishment must be provided with a minimum strain on the digestive system.

Inglis Food has been specially prepared to fulfil these two important functions.

CONTROLLED DIGESTION

All foods stimulate acid necessary for their digestion. But some produce more than they require. An over-active digestion produces an excess of acid, which can be the cause of many gastric complaints.

Inglis Food is so balanced that it does not stimulate an excessive amount of acid and absorbs what it produces—digestion is controlled.

Hospital use has shown that even patients suffering from severe digestive disorders benefit from Inglis Food.

Inglis is a highly nutritious food. It is a specially refined oat flour to which Iron, Phosphorus, Calcium, Vitamins D and B₁ have been added.

INGLIS FOOD

PREPARED FOR A. & R. SCOTT LTD., COLINTON
MIDLOTHIAN, BY JOHN INGLIS & SONS LTD., EDINBURGH

Over 40% prof
on hand
for you!

JELEDA IS THE NEW
ANTISEPTIC HAND JELLY

Popularly priced at
1/6d. per tube,
Jeleda makes a
strong appeal to
every woman by
protecting her
hands from
infection due
to cuts,
chaps,
etc.

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HAND JELLY

The selection of your hand

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WALMART

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Wharf Road, Ponders End, Middlesex
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from LAST
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"Lastonet" is a Registered Trade
Mark of John Heathcoat & Co.

'ASPRO' ACCELERATES BUSINESS

"More display means more sales, means more bonus—and so the wheel turns"—that was one chemist's way of describing the benefits start mounting up when you display 'ASPRO'. Displaying 'ASPRO', in fact, **ACCELERATES** business—**CREATES** custom for other lines, too, and so speeds-up turnover and increases profits. Give 'ASPRO' prominent display and you immediately get the full results of THE MOST ENTERPRISING AND ACTIVE ADVERTISING CAMPAIGN GOING ON IN THE COUNTRY.

While well-tried methods of 'ASPRO' publicity are being sustained and expanded, every new method which proves of value is used to the full. The result is that

'ASPRO' *is selling to a* **GREAT POST WAR PUBLIC**

Hundreds of thousands of speedway and football supporters are hearing the weekly 'ASPRO' programme; millions of cinema-goers are seeing the 'ASPRO' film. Putting in the window a prominent reminder that YOU stock 'ASPRO' is the fastest way of making and permanent customers.



Made by **ASPRO LTD.**,
Slough, Bucks

P.A.T.A.

Introducing A NEW COMBINED ANTIPEPTIC THERAPY

Following extensive work by the Warner Research Staff and after stringent clinical trials, we are pleased to announce the introduction of Gelusil*, a new combined antipeptic preparation showing a distinct advance in antacid therapy. In recent years, ordinary aluminium hydroxide gels and magnesium trisilicate have deservedly taken the foremost place in the treatment of peptic ulcer. Used separately, they have many advantages—and some disadvantages. Gelusil combines, in one tablet, the undoubted therapeutic virtues of both drugs while obviating their drawbacks.

SUPPLIES: Boxes of 50 tablets individually wrapped in moisture-proof cellulose film.

RETAIL PRICE 4/- (including P.T.)	LIST PRICE 28/6 per dozen (plus 9/6 P.T.)
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GELUSIL

* TRADE MARK REG.

William R. WARNER and Co. Ltd. POWER ROAD, LONDON, W.4

IF YOU'RE OUT OF ONE RECOMMEND THE OTHER



In these days, when, do what we will, we cannot always cope with demand, there is an added advantage in the two kinds of Parmint and their three sizes.

All our Press advertising features both Parmints and mentions all the prices. At the moment the 1/7 ready for use Parmint Syrup is in short supply. If you are temporarily out of stock, recommend your customers to take a 3/1½ bottle or a 3/ bottle of the Parmint Concentrated Essences.

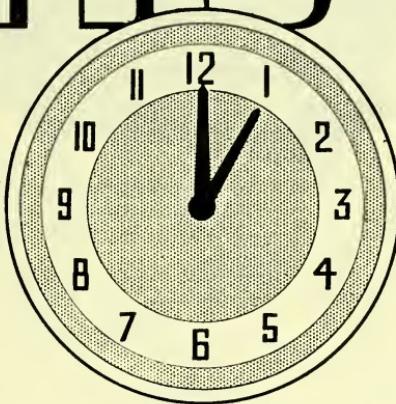


and PATA.

INTERNATIONAL LABORATORIES LTD.
1-3, SMEDLEY STREET, LONDON, S.V.

CLARENDON MEDICATED MINTS

SELL LIKE
1 O'CLOCK



RETAIL



ORDER YOURS NOW

/- gross plus
33 1/3% P.T.

*Order from your usual
Wholesaler or from*

JOHNSON AGENCIES (Proprietaries) LTD

Clarendon Works - - 32/40 NORTH STREET, HORSHAM, SUSSEX

Nearly
Five times the
Profit
FOR
ONE-SIXTH OF
THE TROUBLE

The 26/5 size 'Curicons'—the FULL treatment—is the size your customers ask for. This choice is wise both from their point of view and your own.

YOU ENJOY THESE ADVANTAGES BY STOCKING THE CURICONES 26/5 SIZE

1. You make nearly five times the profit for one-sixth of the trouble. (The 26/5 size contains six times the quantity of the 5/6 size).
2. You sell the equivalent of six bottles of 'Curicons' at one sale—and thus avoid the customer buying only one bottle from you, and the other five bottles elsewhere.
3. Your turnover is quicker. Time is saved.
4. You are cementing goodwill. Obstinate cases of Rheumatic affliction yield to the full course of 'Curicons.'

ORDER A $\frac{1}{2}$ DOZ. FROM YOUR WHOLESALER TO-DAY—and satisfy your customers.



Remember 'Curicons' is a P.A.T.A. Line showing 33½% profit, nationally advertised and recommended by the medical profession. Showcard sent on request.

STEPHEN MATTHEWS & COMPANY LIMITED
9/21 FARRINGDON STREET, LONDON, E.C.4.

Large Size
26/5



with
organically combined sulphur conte

Other Asmidar Specialities include:

GLUTONINE (Asmidar)

Strychnine Gluconate—Gives prolonged action with decreased toxicity. Boxes 8 c.c. ampoules 0.002, 0.0035, 0.005 gm.

ASMIDAR ANTI-RHEUMATIC Ointme

Non Greasy, Non Staining Analgesic
Size $\frac{1}{2}$ oz. Tubes.

Also—Piperazine (Asmidar) and Sulpha Cream (Asmidar). Literature and information gladly supplied on request.

ASMIDAR LTD
16 DOUGLAS STREET, LONDON, S.V.
Telephone : VICTORIA 5556



OVER 150 YEARS REPUT
KEARSLEY

THE ORIGINAL

WIDOW WELCH'S FEMALE

9d. BOX PROFIT by ordering
3/3½ size. Bonus box given
dozen (13). It pays to push it.

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EDIBLE EMULSIFI
GUARANT
TO CONFORM
FOOD & DRUGS SPECIFICATI
SAMPLES & PRICES ON REQUEST

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Telephone 22594

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NEWS OF THE W

Announcing the
new **INFLUCOL**^{REGD.}

ORAL VACCINE



-backed by a powerful
national advertising campaign

INFLUCOL^{REGD.}

ORAL VACCINE

INFLUCOL LTD. KEMTHEUTIC HOUSE, BRADFORD
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MAIL • SHEFFIELD STAR • YORKSHIRE POST • DAIL
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SEROCALCIN..

FOR THE PREVENTION
AND TREATMENT OF COLDS

The extensive advertising campaign in all sections of the press and the personal recommendation of regular users have created a constantly increasing demand for Serocalcin. Ample supplies are available now and chemists are urged to maintain adequate stocks.

Special Window Displays featuring Serocalcin are being arranged for the period January to March, and Chemists are asked to make sure that they have adequate stocks to meet the additional demand that these displays will create.

P.A.T.A.

Pharmacists are reminded that the sole selling agents for Serocalcin in the United Kingdom are J. C. Eno Ltd., Watford, Herts. (Watford 7761) to whom all orders and enquiries should be sent:



Serocalcin is packed in 20s and 60s.

HARWOODS LABORATORIES LTD., WATFORD, HERTS.



The CHEMIST AND DRUGGIST

SUPPLEMENT

A Supplement is included in every copy of Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2.

JANUARY 31

1948

ailling restrictions and heavy demand on space necessitate the holding over of a number of advertisements week by week. As normal press days are in abeyance advertisers are advised to send contributions as early as possible. Advertisements must be prepaid. Box Office Numbers 2/- extra.

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yments excepted from the provisions of the
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SITUATIONS OPEN

36 words or less, 3d. for every additional word

RETAIL (HOME)

ANTS required in the Balham and Bayswater areas with knowledge of dispensing. Excellent working conditions and salary. Ricks, Ltd., 298 Cavendish Rd., S.W.12.

ANT required qualified or unqualified, male or female. No N.H.I. No Sunday or holiday duties. Rent living accommodation can be arranged. State usual particulars. Early Bun, Ltd., 95 High St., Chelmsford, Essex.

ANT required, qualified or unqualified. Please give giving usual particulars, to Norman Brook, 142 Huddersfield Rd., Mirfield, Yorks.

THE CHEMISTS invite applications from assistants, male and female, particularly who have recently completed their course of training and from fully trained unqualified assistants 35 years of age. Applications, stating age, experience, district preferred, etc., to Retail Staff Department, Station St., Nottingham.

TON. Qualified manager required for brisk business in Brighton. Separate accommodation provided. Good salary; superannuation scheme. Apply Box 2/618.

TS' ASSISTANTS (ladies) wanted for clerical work in the N.H.I. checking bureau and stock-pricing departments. Apply National Pharmaceutical 4-5 Queen Sq., W.C.1.

QUALIFIED assistant for busy N.H.I. dispensary and to act as relief when necessary at three shops. Would suit young ex-Service man. Director, D. Desmond & Co., Ltd., 55 Free-st. Rd., E.16.

DURNE. Qualified assistant, £8 per week furnished accommodation. Good-class business. Merchant, Chemist, Eastbourne.

DURNE. Qualified assistant (male) wanted. Good dispensing business. H. R. Browne, 44 Rd., Eastbourne.

LIVING accommodation for branch manager. Established private company, Stratford, E.15. Salary for young, energetic pharmacist. Conveniences. Apply, R. S. Stableford, 32 Rd., Wanstead, E.11.

HIRE. Experienced pharmacist required for branch in country town in Hampshire. Good working staff; modern fitted shop and well equipped house available. Apply Box 2/622.

Apothecaries' Hall Certificate) for preference for good-class modern pharmacy Epping locality. Main shopping area. Comfortable working conditions. Three other ladies on staff. Generous and liberal salary available. L. Matson (Chemists), Ltd., 25 High St., Wan-

L. ROWLAND & CO., LTD., of Wrexham, wish to increase their qualified staff, and invite applications for two vacancies. One, the management of a small branch could be filled quite adequately by an elderly gentleman not requiring too arduous duties, but the other offers an opportunity for a young gentleman to take an important and progressive position within the firm. Unfurnished accommodation may be offered with one vacancy. Full particulars please to "Mitre Buildings," Wrexham.

MIDDLESEX. Applications are invited from pharmacists for management of busy branch in residential district. Energetic ex-Service man would suit, for whom housing accommodation could be arranged. Apply Box 2/620.

NORTH KENT. Vacancy occurs shortly for a qualified manager for a busy branch pharmacy. Living accommodation will be arranged for successful applicant. Full particulars in first letter please, to Box 2/621.

NORTH LONDON. Energetic young manager (qualified) wanted for good-class pharmacy in Northern suburb. Living accommodation available. Apply Box 2/619.

PORTSEA ISLAND CO-OPERATIVE CHEMISTS, LTD., require qualified pharmacy branch manager. Permanency, excellent prospects, superannuation fund. Applications in writing, stating age, qualifications and experience, and salary required, to the Executive Officer, 110 Fratton Rd., Portsmouth. Enclose envelopes "Pharmacist."

QUALIFIED CHEMIST, either sex, required as chief assistant in central pharmacy; permanent progressive position; superannuation scheme in operation. Apply stating age, experience, and salary required, to: The Supt. Chemist, Co-operative Chemists, Ltd., Kidderminster, Worcestershire.

QUALIFIED LADY or gentleman to manage branch. No Sunday, half-day or bank holiday duties. Good wages and bonus. Living accommodation will be available to suitable applicant if required. Full particulars to L. S. Roys, M.P.S., 57 Liverpool Rd., Higher Irwell, nr. Manchester.

QUALIFIED MANAGER required for branch shop. Salary and commission will be paid to right man. Possibility of living accommodation being available shortly. Ricks, Ltd., 298 Cavendish Rd., S.W.12.

_SOUND unqualified assistant, either sex, for branch shop in W.C. area; good salesman; 50 scripts per week; hours 9 a.m. to 6 p.m. No rota duties. Lowest salary being offered £6 10s. per week. No accommodation. Please send full details to Box 2/700.

SURGICAL BELT and truss fitter. Experienced lady required in London. Permanency. Reasonable hours, and canteen. Write, giving full particulars and salary required. Box 2/585.

SUSSEX. A vacancy exists for a qualified branch manager in a family and veterinary business in Lewes. Good salary; pension scheme; permanency. Apply Retail Drug Dept., Timothy Whites & Taylors, Ltd., 70 Vauxhall Bridge Rd., London, S.W.1.

SURGICAL STORES salesman wanted. Duties taught to adaptable applicant. Would suit elderly man. S. Seymour, 47 Bedford St., W.C.2.

URGENTLY WANTED. Qualified manager, for good-class dispensing business, able to window-dress an advantage. Apply, giving full particulars of experience and salary required, to W. L. Million, Ltd., 168 Fleet Road, Fleet, Hampshire.

UNQUALIFIED ASSISTANT, experienced in dispensing required in Hammersmith and City areas. Kindly write, giving details of experience, to Box 2/724.

WEST PRIVATE COMPANY requires pharmacist for new branch to be opened shortly in beautiful rural area. It is suggested that employment begins immediately at headquarters shop to enable full understanding of policy before taking new position. Present staff references re working conditions available. Box 2/576.

LOCUMS WANTED

M.P.S. REQUIRED. East London. Three months or less. Able to take charge of branch shops. Apply with full particulars to The Secretary, 55 Freemason's Rd., E.16.

WHOLESALE

The Chas. H. Phillips Chemical CO. LTD.

require additional representatives for the Home Counties, the South Coast, South Yorks and Derby, also South Wales. Applications are invited from men resident in these areas with sound experience in retail pharmacy.

Apply to Sales Director:—

179 ACTON VALE, LONDON, W.3
giving all details and outline of past experience.

A LEADING LONDON surgical instrument house requires smart shorthand typist (male or female) with knowledge of bookkeeping, and with possibility of promotion to secretary. Write in the first instance, giving full details of past experience and salary required, in confidence, to Box 1241 Mason-Peacock, 184 Strand, W.C.2.

BIRMINGHAM AREA. Applications are invited for a senior position in the stock pricing department of a prominent organisation; excellent opportunity for unqualified person of either sex possessing experience in the retail and/or wholesale drug trade; some outside work may be involved but the duties would in the main be internal; please state full particulars of previous experience, salary, etc., under assurance of confidence. Box 2/695.

BUYER required by well-known London manufacturing chemists. Should be used to purchasing chemicals, drugs and all types of packaging materials in fairly large supplies. Salary in accordance with experience. Give full details in reply, to Box 2/720.

CHEMIST. Applications are invited for the position of analytical and research chemist with a well-known firm in the agricultural sphere. Degree in chemistry or fellowship essential. Salary commensurate with ability. Exceptional opportunity, with prospects of promotion to executive position. Apply in first instance, giving full details, personal record, academic qualifications, and previous experience, to Box 2/729.

COSMETIQUE VIGDOR (Londres), LTD., 115 Queensway, W.2, require a first-class representative to carry high quality cosmetics, perfumery, etc., on commission. All areas. Good connection with chemists and hairdressers essential. Apply in writing with references.

MANCHESTER wholesale chemists require warehouseman experienced in both wets and drys, for drug department. State age, wage required and experience. Box 2/723.

GENERAL MANAGER required with all-round knowledge in sales, publicity, production, etc. Possession of a pharmaceutical degree an advantage. Go salary and excellent prospects for the right applicant. Advertisers are well-known manufacturing chemists in London to whom full details of age, experience and qualifications should be sent in confidence. Box 2/569.

LEADING COMPANY of distributors marketing nationally advertised pharmaceutical products, toilet preparations, etc., invite application for the appointment of assistant sales manager. Experience in sales promotion work, possessing initiative with knowledge of wholesale and retail trade is desirable. Apply in first instance, giving age and full details of experience in strictest confidence, to Box 2/721.

MANUFACTURERS of nationally advertised cosmetic preparations require representatives in the British Isles calling on chemists, stores and wholesale houses. Men with established connections of need apply. All enquiries dealt with in strict confidence. Apply Duncan, Harris & Co., Ltd., Temple Chambers, E.C.4.

MANUFACTURERS of C.F. preparations require representatives or agents for all areas to carry the products on a 20 per cent. commission basis. Applicants must have good connection and be prepared to give adequate representation. Applications with full particulars of present territory, companies represented and lines carried to Box 2/598.

OLD-ESTABLISHED firm of wholesale chemists sundriesmen require smart man to call on chemists, etc., with proprietary lines in short supply. Work and commission. References required. W. Foyle & Sons, Ltd., 14 Devonshire Row, London, E.C.2.

OLD-ESTABLISHED manufacturing chemists of well-reputed propose to appoint woman publicity officer. Duties include assembly of matter for trade advertisements, circulars, catalogues, etc., dealing with purely technical products (such as materials used in pharmacy and in the manufacture of perfume, flavours, etc.), produced in collaboration with advertising agents; together with incidental round work, records, etc. Essential qualifications: general education, flair for writing, tact to extract information from busy people, and suitable public experience. Some knowledge of the trade an advantage. Initial salary around £500. Reply with details, to Box 2/719.

PHARMACIST required for small manufacturing dispensary in London factory. Capable of keeping small D.D.A. records and working with and supervising staff of four. Preferably young and a methodical worker. Write, stating full particulars of experience, age and salary expected. Box 2/702.

PROMINENT London firm manufacturing and marketing wide range of pharmaceutical products, preparations, etc., have a vacancy at their factory for a qualified pharmacist to supervise manufacturing. Apply, giving full particulars, age, experience indicating salary required, to Box 2/722.

PUBLICITY. Exceptional opportunity with prospects for young ambitious man with experience of pharmaceutical copywriting for brochures, advertisements, etc. Congenial, responsible and progressive post in Central London. Good salary according to experience. Fullest details in strict confidence. Box 2/728.

REPRESENTATIVES required by importers of bottles and jars for the cosmetic trade. Calling on cosmetic manufacturers, pharmacists, chemists, hairdressers. Car essential. Commission and allowance. Territories: (1) Lancashire-Cheshire; (2) Yorkshire-Northumberland-Durham; (3) Folk-Suffolk-Hants-Cambs-Lincs-Rutland; (4) Warwickshire-Gloucestershire; (5) London. Box 2/565.

REPRESENTATIVES required for London and 1 Counties, Lancashire and Eastern Counties, to call on chemists with well-established C.F. lines. Permanent and progressive position. Give age, experience, etc., to Box 2/571.

REPRESENTATIVE required London area for widely divided line. 15 per cent commission. Box 2/698.
ENTATIVES with first-class sales ability and experience among chemists, stores, etc., required areas in the British Isles by well-established chemist and druggist sundriesman. Application with full particulars of experience, etc., will be held in strict confidence. Apply to Box 2/692.
REPRESENTATIVE required with connection manufacturers and chemists by an establishment of essential oils and perfume compounders. Salary and very good commission to the right man. Reply to Box 2/690.
EN; must have entrée to top-class ladies' bars and/or chemists and stores, to handle biological beauty preparations. Straight position. Box 2/687.

SEPER required by a well-known London pharmaceutical house. Applicant must also be connected with packing, despatch, etc. Progressive and full particulars of age, experience and expected, to Box 2/570.

HAG STICKS, shaving cream, toilets. Old-established company require experienced live representatives in all parts of the United Kingdom. Give to those with existing connections chemists and grocers. Remunerative opportunities for good men. Box 108, c/o George Murray & Sons, Ltd., 184 Strand, London, W.C.2.

BLET MAKER REQUIRED FOR SOUTH AFRICA

Must be expert in all tabletting processes including EFFERVESCENT TABLETS.

In writing with full details of experience, salary required, etc., to:

Box 983,

SUTHS', 100 Fleet Street, London, E.C.4

SITUATIONS WANTED

words or less, 1d. for every additional word

RETAIL (HOME)

IFIED, presently engaged, 5 years' London experience, desires change. Interview State salary offered. Box 2/691.
IFIED, seeks position London or Middlesex. years, good all-round experience. Box

WHOLESALE

LL ENGINEER, with over 20 years' experience in organic chemical production seeks whole, or consultative appointment in a technical capacity, or (with investment) as partner in an established or proposed chemical engineering concern. Box 2/710.
SS, qualified representative or sales manager, years experience. Midlands preferred. £800/£1,000 per year. Box 2/414.
C MANAGER with proved ability to get generation of workers, desires post where this can be applied to advantage. Wide experience in warehouse side of drug and chemical First-class references. Anywhere outside considered. Box 2/495.

R. Gentleman, experienced, own car, go to firm of repute. Good connection wholesale chemists, Midlands. Would south Coast. Salary, commission and expenses. Box 2/716.

PHARMACEUTICAL CHEMIST (B.Sc., Hons.) with wide experiences in pharmacy, seeks position as technical director with manufacturing and wholesale chemists. View to development in ethical pharmaceutical field. Prepared to invest £2,000-£3,000 if necessary. Propositions invited. Box 2/566.

WORKS and production manager; experience in filling machines and maintenance; used to handling mixed staff; can also manufacture toilet and pharmaceutical packed lines, with packing and dispatch knowledge. Good organizer. Age 34. Box 2/660.

APPOINTMENTS

MILDAY MISSION HOSPITAL,

Austin St., E.C.2

QUALIFIED PHARMACIST required (woman). Salary according to Joint Negotiating Committee (Pharmacists) Scale. Federated Superannuation Scheme is in force. The Council is desirous that applicants should be in sympathy with the evangelistic work of the hospital. Applications to the Medical Superintendent.

THE GENERAL INFIRMARY AT LEEDS

Applications are invited for the appointment of **ASSISTANT PHARMACIST**. Salary in accordance with the J.N.C. scale commencing at £350 p.a., plus meals, which will be provided when on duty. Federated superannuation scheme in force. Night and week-end duty will be worked in rotation. Previous hospital experience not essential. Applicants must reply in own handwriting, stating sex, age and experience, and also enclose copies of not more than three recent testimonials to the House Governor and Secretary, not later than 4th February, 1948.

WEST KENT GENERAL HOSPITAL, MAIDSTONE

135 BEDS

Applications are invited for the post of pharmacist now vacant. Salary according to the scale laid down by the Joint Negotiating Committee. Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be sent to the undersigned.

EDWARD J. GREGG,
House Governor and Secretary.

AGENCIES

17/6 for 36 words or less, 4d. for every additional word

EYE-LASH BRUSHES. Advertisers, who are actual manufacturers of eye-lash brushes, pre-war type, and quality hairbrushes, wish to appoint a reputable U.K. firm of wholesalers and exporters who would handle complete export distribution. Enquiries are invited only from firms having established export markets for these lines. For further details write Box 2/430.

MANUFACTURERS of advertised products on C.F. List require agents for Yorkshire, Derby, Nottingham, Lancs, Lincoln. Apply, giving fullest particulars. Applicants must be well introduced. Box 2/689.
MANUFACTURING CHEMISTS, marketing exceptionally attractive range of products, require sole agent throughout British Isles on generous commission basis. Must have established connection with wholesale and retail chemists, Co-op. Societies and departmental stores. Quick selling lines and good repeats. Reply in confidence, stating experience, territory covered and present lines carried, to Sales Division, Box 2/730.

WELL-ESTABLISHED distributors with good connections amongst chemists, stores, etc., are open to receive inquiries for marketing proven articles. Write in confidence, to Box 2/693.

WELL-ESTABLISHED agents calling on chemists only are prepared to consider additional sole agencies. Box 2/717.

BUSINESS OPPORTUNITIES

17/6 for 36 words or less, 4d. for every additional word

COMPANY MARKETING patent toilet article of nation-wide appeal, now selling through chain store chemists and leading independent chemists in various parts of the country, invite further substantial capital to expand or would consider sale to company already established in this field. Box 2/573.

DISTRIBUTING AGENTS, desirous of marketing lines under their own name, wish to contact firms who are in position to manufacture and pack. State specialities. Box 2/612.

ESTABLISHED MANUFACTURERS have additional capacity for packing and processing face powder, talcum powder, liquids, etc. Latest modern machinery. Box 2/708.

BUSINESSES FOR DISPOSAL

8/6 for 36 words or less, 3d. for every additional word

DRUG STORE for immediate disposal due to ill-health of owner. Situated in busy main road in S.W. London, taking over £4,400 per annum (audited figures). Business established over 15 years and has first-class quotas and monthly accounts with leading manufacturers and wholesalers. Low overheads and an excellent living. Lock-up shop with good frontage. Would convert to chemists. Goodwill, fixtures and fittings £2,250 with stock at valuation (about £750). Write Box 2/713.

EAST LONDON. Very old-established group of eight businesses for disposal. Wholesale membership Scope. Heavy stocks and valuable fixtures. Reasonable rentals. Total purchase price for goodwill, leases, stock, fixtures and three freeholds, approximately £42,500. Total turnover £800-£1,000 a week. Excellent profits. Box 2/699.

ESTABLISHED cosmetic business with valuable quota licence. Write to Box G.P., c/o J. W. Vickers & Co., Ltd., 7/8 Great Winchester St., E.C.2.

FOR SALE at Wigan, pharmacy with good allocations of toilets, etc. Proprietors have other interests. Price £1,000, stock and fixtures. Very low rent. Box 2/715.

MANUFACTURING CHEMIST'S business for sale. South Yorkshire. Products selling to general dealers and hairdressers. Large sales force. Turnover between £75,000 to £100,000 per annum. Price £40,000 (no buildings or land) or would consider selling a half interest to a suitable person for £25,000. Genuine enquiries only to Box 2/688.

RHONDDA VALLEY. Drug store in shopping centre. Chemist shop for over 35 years. Dispensary. Also house connecting, 8 rooms, bath, gas, electricity. Going abroad. Box 2/711.

WHOLESALE sundries concern. Large connections. Good quotas. Turnover £26,000, increasing. Spacious premises. Low rent. Lease. London area. Owner going abroad. Price, including fixtures and fittings, lease, office equipment, goodwill, etc., £12,500, s.a.v. Box 2/697.

MISCELLANEOUS SALES

17/6 for 36 words or less, 4d. for every additional word

APPROXIMATELY 6 tons ground nut fatty acid in 2-3 cwt. steel casks. First reasonable offer accepted. Write Box 2/642.

SURPLUS to requirements. White block stearic acid, 116-120° M.P. Enquiries invited. Box 2/709.

SURPLUS. Sodium Sesquicarbonate (Feathery) 40 x 1 cwt. bags; sodium carbonate (pea) 40 x 1 cwt. bags; 3 cwt. spermaceti; large stocks fancy boxes, 8 sizes. Enquiries, Willsons, Chemists, High Rd., Balby, Doncaster.

WE CAN SUPPLY absorbent wool of Dutch manufacture, packed in one pound rolls. Available in one cwt. lots only, at 2s. 7½d. per lb. for hospital and 3s. 2½d. per lb. for best. Both prices subject to plus 10% duty charges. Edwards Surgical Supplies, 66 Mortimer St., London, W.1.

SURPLUS STOCK at cost. 160,000 moist heat-sealing transparent film bags, 300 x 2½ in. x 6 in. Samples, price available on Box 2/705.

WANTED

8/6 for 36 words or less, 3d. for every additional word

PEPPERMINT OIL required; any quantities. To Box 2/703.

SESOQUICARBONATE, crex and stearic acid and double pressed. Write Box 2/552.

STEARIC ACID, double or triple pressed. Abilities. Offers to Box 2/704.

TINS for solid brilliantine. Large quantity export; also white and yellow petroleum jelly. Box 2/696.

WANTED, regular supplies of cellulose packed in 1 dm. bottles with brush. Bottles supplied if necessary. Box 2/714.

WANTED. Rotary tablet making machine details to Box 2/555.

WANTED. Triple pressed stearic acid in small quantities. Glycerin B.P. available payment. Box 2/650.

2-10 TONS caustic soda flakes and solid and sulphide. Write Box 2/553.

FOR SALE

8/6 for 36 words or less, 3d. for every additional word

TO CLEAR. Vials, 1 dram. Metal screw caps. prox. 50 gross, 10/- a gross. British Prod.

Eastern Espl., Southend-on-Sea.

SALE. Seven dozen leathered covered steel spring trusses, shop soiled. First class secure. Box 2/694.

PARTNERSHIPS

DORSET HIGHLANDS. The director-proprietor of an old-established, small ethical limited company desires appoint energetic co-director or chemist for a sister toiletry company (Ltd.) during war and now re-opening with severer trade mark specialities and quota. Introduce new high-class specialities, know home and export marketing. Investment £10,000. Residence available. Box 2/680.

TENDERS

CITY AND COUNTY OF BRISTOL. The Committee invite quotations for supply of cal products, insulin, penicillin, etc., for Capital, sanatoria, health centres, etc., for 12 months commencing 1st April, 1948. Forms tender undersigned, should be returned in plain envelope by 10 a.m. 12th February, superseding goods tendered for, but without an or mark indicating sender. Contractors observe fair wages clauses of the Council. Tenderers must state whether they are on the Roll. Lowest or any tender not necessarily a Medical Officer of Health, Kenwith Lodge, Bristol 6.

SALES BY AUCTION

By order of the Liquidators, re Jean C. Ltd., and Jeannette (London), Ltd. Be Liquidation and other estates.

LARGE STOCKS of Carnival Hats, Shampoo and Talc Dusting Powders, A Tablets, liquid make-up, lacquer, compact tooth powder and ointment tins, fancy perfume and lipstick boxes, aspirin tubes, various greaseproof bags, Bottles of Eau de Cologne Water Softener, etc.

FRANK G. BOWEN, LTD. (Established) will Sell by Auction at their Sale Room Greek St., W.1, ON THURSDAY FEBRUARY 5th, 1948, at 11. On view day prior. Logues 3d. of the Auctioneers. Telephone Ward 3244/5.



BROMIDES

**Sodium
Potassium
and all Salts**

Manufactured by

WHIFFEN & SONS LTD

ALDERSGATE CHEMICAL WORKS
FULHAM LONDON SW6

Telephone : RENOWN 3416 Private Branch Exchange
Telegrams : WHIFFEN, LONDON

JANUARY 31, 1948

'Sleek' PLASTIC ADHESIVE STRAPPING



IT'S NEW
and
waterproof
-like a duck's
back

'Sleek' is the latest development in the surgical plaster field. Made on a delightfully smooth plastic base, it is impervious to water, oil and antiseptics and its semi-polished surface discourages dirt and stains. 'Sleek' cannot fray or catch in clothing. Stays neat and clean for long periods. Flesh-coloured, inconspicuous. The up-to-the-minute zinc oxide strapping.

Plentiful supplies of 'Sleek' Strapping now available. On spools, 5 yd. lengths 1" and 2" widths. For surgical or general utility purposes.

(S.C)

